"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P.I.

Some results of fishery research in the Eastern Sivash and Molochnyy Liman. Vop. ikht. 1 no.3:422-434 '61. (MIRA 14:11)

1. Institut gidrobiologii AN USSR.
(Sivash—Fisheries)
(Molochnoye, Lake—Fisheries)

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PAVLOV, P.I.

Morephometric characteristics of the Dnieper roach and its economic importance. Zool. zhur. 40 no. 2:244-250 F '61.
(MIRA 14:2)

1. Institute of Hydrobiology, Academy of Sciences of the Ukrainian S.S.R. (Kiev).

(Dnieper River—Roach (Fish))

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PAVLOV, P.I.; SMIRNOV, A.I.

Leucaspius delineatus (Heckel) in the basin of the middle Dnieper River. Zool.zhur. 44 no.10:1574-1577 '65.
(MIRA 18:11)

1. Institut gidrobiologii AN UkrSSR, Kiyev.

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PAVLOV, P.I.

Hybrid Spartinia ecytiorphicalmus [illegible]
achiacokovi Urenaky. Zool. zazn. A. [illegible]

1. Institut gidrobiologii AN Ukr. SSR, Kiyev.

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ZVAZIKOV, B.Kh., mayor zapasa; GRINCHENKO, V.Ye., polkovnik, red.; BELYAYEV, M.K., podpolkovnik, red.; SUKHOMLINOV, P.M., mayor, red.; GOLUBEV, G.G., polkovnik zapasa, red.; PAVLOV, P.I., polkovnik v otstavke, red.; YABLOKOVA, G.I., red.

[Gold Stars of the Chechen-Inguish A.S.S.R.; sketches on Heroes of the Soviet Union] Zolotye zvezdy Checheno-Ingushetii; ocherki o Geroiakh Sovetskogo Soiuza. Groznyi, Checheno-Ingushskoe knizhnoe izd-vo, 1964. 310 p. (MIRA 18:4)

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LAZAREV, P.S., FEDOROV, A.I., prof.; BUKHTILOV, F.N., dotsent; PAVLOV, P.I., dotsent; ZASLONOV, M.S.; PLEKHANOV, B.P.; Prinimali uchastiye: GRIBOVSKIY, G.P., veterinarnyy vrach; RYBAKOVA, A.V., veterinarnyy vrach

Some characteristics of the course of rabies in cattle. Veterinariia 39 no.9:20-22 S '62. (MIRA 16:10)

1. Troitskiy veterinarnyy institut (for Lazarev, Fedorov, Bukhtilov, Pavlov). 2. Direktor Troitskoy mezhsovkhoznoy veterinarno-bakteriologicheskoy laboratorii (for Zaslonov). 3. Glavnyy veterinarnyy vrach Bredinskogo rayona, Chelyabinskoy oblasti (for Plekhanov).

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PAVLOV, P.I.

Adaptive variability of wild carp. Vop. ekol. 5:154-155 '62.
(MIRA 16:6)

1. Institut gidrobiologii AN UkrSSR, Kiyev.
(Carp) (Adaptation (Biology))

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KOMAROVSKIY, A.N.; KURYSHEV, V.S.; LAVROV, A.V.; PAVLOV, P.I.; SHIRYAYEV, F.Z.

The buildings, foundations and protective installations of an accelerator with rigid focusing for an energy of 7.0 Gev. Prom. stroi. 41 no.2:31-34 F '63. (MIRA 16:3)
(Particle accelerators—Design and construction)

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KALDERON, Dimitritsa; KOSHARSKA, Tinka; DRUMEV, Bozhidar, inzh.; BOZHINOV, Sava Filipov; KHRISTOV, Ivan Filipov; uchenik; OVANOVA, Mela, prepodavatelka; MILKOV, Vuliu; NIKOLOV, Iordan Georgiev; SHALAVEROV, Zlati Dimitrov; PASKOVA, Stoika Ivanova; PAVLOV, Pavel Iordanov

During the new school year better achievements. Nauka i tekh z mladezh no.10:3-4,16 '61.

1. Zav. otdel "Srednoshkolska mladezh" v TSK na DKMS(for Kalderon) 2. Sekretar na zavodskiia komitet na DKMS v zavod "Stalin", Dimitrovo (for Kosharska) 3. Predsedatel na nauchno-tekhnicheskoto d-vo i nachalnik biuro "Tekhnicheski progress" v zh. p. zavod "G. Dimitrov" Sofiya. (for Drumev) 4. Sekretar na Okruzhniia komitet na DKSM, Plovdiv(for Bozhinov) 5. Selskostopanski tekhnikum v x. Sadovo, Plovdivski okrug (for Khristov, Ivanova) 6. Direktor na MTS s. "Ekzarkh Antimovo" Gurgaski okrug (for Milkov) 7. MTS, Gorna Oryakhovitsa (for Nikolov) 8. Sekretar na Okruzhniia komitet na DKMS, Turnovo(for Shalaverov) 9. Bibliotekarka v s. Rudnik, Varnenski okrug (for Paskova) 10. Sekretar na Okruzhniia komitet na DKMS, Varna (for Pavlov)

(Education)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

LAZAREV, P. S., FEDOROV, A. I. (Professors), BUKHTILOV, F. N., PAVLOV, P. I. (Docents, Troitsk Veterinary Institute), Zaslonov, M. S. (Director of the Troitsk Intersovkhoz Veterinary Bacteriological Laboratory) and PLEKHANOV, B. P. (Head Veterinary Doctor of the Bredinsk District, Chelyabinsk Oblast')

"Certain characteristics of the course taken by rabies in cattle"

Veterinariya, vol. 39, no. 9, September 62, p. 20

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PAVLOV, P. I.

PAVLOV, P. I.: "The pathomorphology and certain problems of the pathogenesis of drepanidoteniosis of geese". Voronezh, 1955. Min Agriculture USSR. All-Union Inst of Helminthology imeni Academician K. I. Skryabin. (Dissertations for the Degree of Candidate of Veterinary Sciences)

SO: Knizhnaya letopis', No. 52, 24 December, 1955. Moscow.

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USSR/Farm Animals. Domestic Birds

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 50110

Author : Pavlov P.I.
Inst : Voronezh Institute of Zoological and Veterinary Sciences
Title : On the Problem of a Sharp Distension of Stomach and Esophagus in Geese (From a Dissector's Experience).

Orig Pub : Tr. Voronezhsk. zoovet. in-ta, 1956, 13, 133-135

Abstract : A case of mass epizooty of geese due to grain overfeeding (168 gr of wheat grain for a single feeding) is described, which occurred after a period of underfeeding (40-50 gr of millet twice daily for 5 days). The swelling of the grain fodder produced a sharp distension of the stomach and of the esophagus, which acquired a spindle-like form up to 6 cm in diameter. This fact caused a compression of the heart and of the lungs. Death occurred as a result of asphyxia which was accompanied by symptoms of a gradually weakening heart activity. --I.L. Pozdyunin

Card : 1/1



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PAVLOV, Petr Ivanovich; PCHELINTSEVA, G.M., red.; KORSHUNOVA, N.I., tekhn. red.

[Radiography--Safety regulations]Pamiatka po tekhnike bezopasnosti dlia radiografa. Moskva, Gosatomizdat, 1962. 27 p. (MIRA 16:1)

(Radiography--Safety regulations)

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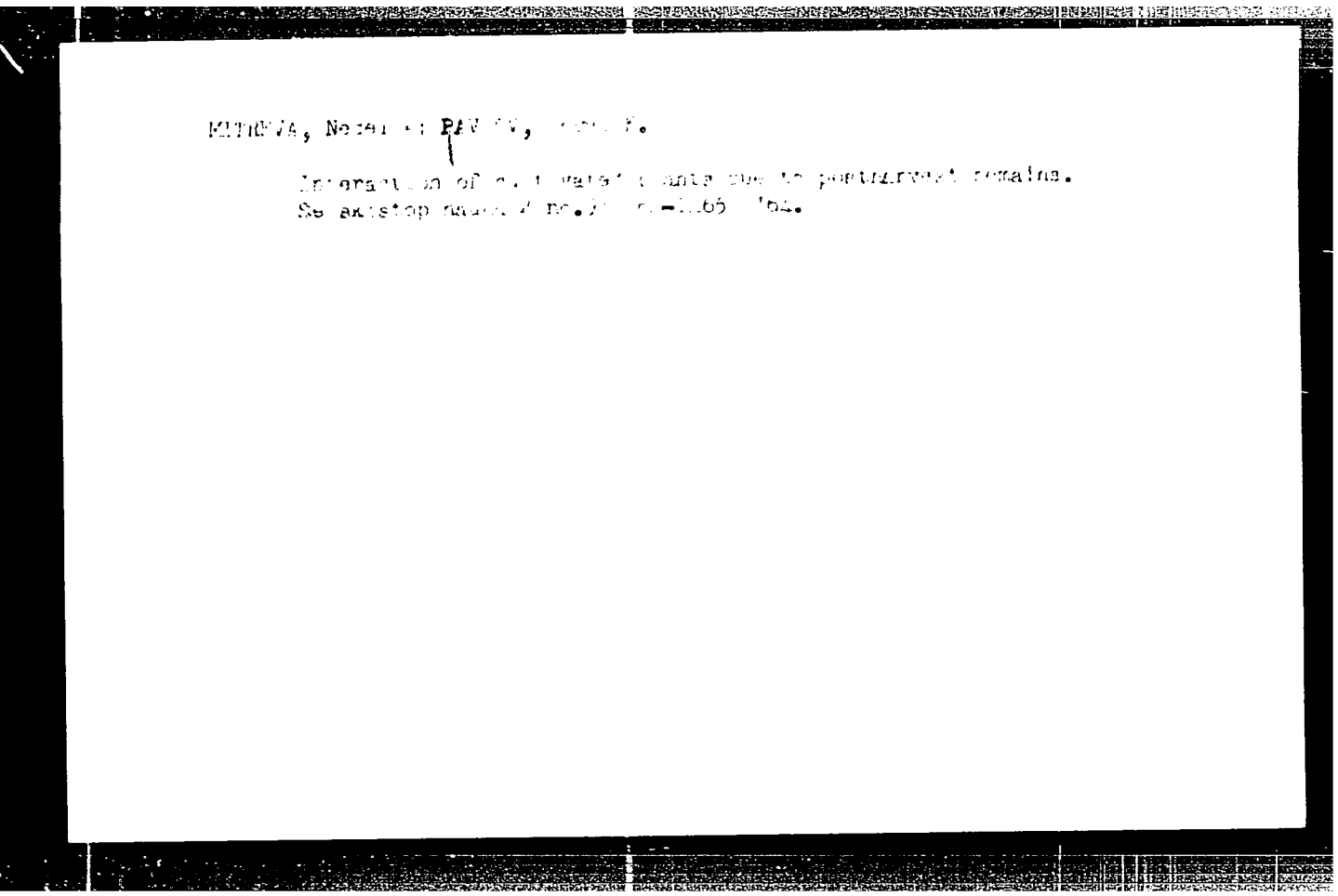

KITHEVA, Nezat [illegible] PAV [illegible], [illegible].

Interaction of [illegible] water [illegible] with [illegible] pentazocine remains.
Se akrisiop [illegible] no.7 [illegible]=1.65 '64.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P. M.

20754. Pavlov, P. M. Protyagivaniye bolshikh otverstiy. Stanki i [illegible], 19[illegible], No. 6, s. 14-16.

SO: LETOPIS ZHURNAL'NYKH STATEY - Vol. 2[illegible], Moskva, 1 [illegible].

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

BAKHILDZE, V.N.; PAVLOV, P.N.

Mining Engineering

Application of the analytical method in mining (continuation), Gor.zhur, no. 7, 1952

9. Monthly List of Russian Accessions, Library of Congress, October 1952 Uncl.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, Petr Mikhaylovich, prof.; KAGANOV, Yefim Davydovich, dots.; ZALKIND, A.I., red.; BAZLOVA, Ye.M., mlad. red.; GERASIMOVA, Ye.S., tekhn. red.

[Socialist production of the means of production at the present stage] Sotsialisticheskoe vosproizvodstvo na sovremennom etape. Moskva, Ekonomizdat, 1963. 343 p. (MIRA 17:1)

(Economics)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

CHUKHNO, A.A.; KOZLOV, G.A.; KASHCHENKO, A.I.; AGANBEGYAN, A.G.; VOLKOV, M.I.; ZHUKOVSKIY, Ya.M.; NAGORNYY, A.F.; TSAGOLOV, N.A.; KOVALEVA, M.F.; PAVLOV, P.M.; ATLAS, M.S.; KATS, A.I.; NAROVLYANSKIY, V.G.; ANCHISHKIN, I.A.; SPIRIDONOVA, N.S.; KRONROD, Ya.A.; SULIMOV, I.A.; BREGEL', E.Ya.; ROZENMAN, Ye.S.; VARTANYAN, K.A.; NOVIKOV, V.A.; GATOVSKIY, L.M.

Structure and content of the course on the economics of socialism. Vop. ekon. no.6:57-143 Je '62. (MIRA 15:6)

1. Kiyevskiy gosudarstvennyy universitet (for Chukhno). 2.Vysshaya partiynaya shkola pri TSentral'nom komitete Kommunisticheskoy partii Sovetskogo Soyuza (for Kozlov, Volkov, Zhukovskiy). 3. Yaroslavskiy gosudarstvennyy pedagogicheskiy institut (for Kashchenko, Narovlyanskiy, Sulimov). 4. Institut ekonomiki i organizatsii promyshlennogo proizvodstva Sibirskogo otdeleniya AN SSSR (for Aganbegyan). 5. Institut povysheniya kvalifikatsii prepodavateley obshchestvennykh nauk pri Kiyevskom gosudarstvennom universitete (for Nagornyy). 6. Moskovskiy gosudarstvennyy universitet (for TSagolov, Spiridonova). 7. Akademiya obshchestvennykh nauk pri TSentral'nom komitete Kommunisticheskoy partii Sovetskogo Soyuza (for Kovaleva). 8. Leningradskiy finansovo-ekonomicheskiy institut (for Pavlov). 9. Moskovskiy finansovyy institut (for Atlas). 10. Nauchno-issledovatel'skiy institut truda (for Kats). 11. Institut ekonomiki AN SSSR (for Anchishkin, Kronrod). 12. Moskovskiy ekonomiko-statisticheskiy institut (for Bregel'). 13. Moskovskiy energeticheskiy institut

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CHUKHNO,---(Continued) Card 2.

(for Rozenman). 14. Armyanskiy sel'skokhozyaystvenny, institut (for Vartanyan). 15. Permskiy politekhnicheskiy institut (for Novikov). 16. Chlen-korrespondent Akademii nauk SSSR, glavnyy redaktor zhurnala "Voprosy ekonomiki" (for Gatovskiy).
(Economics--Study and teaching)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, Petr Mikhaylovich; AZAROV, E.K., red.; SHERMUSHENKO, T.N., tekhn.red.

[Technological progress and the renovation of fixed assets] Tekhnicheskii progress i obnovlenie osnovnykh fondov. Leningrad, Lenizdat, 1960. 53 p. (MIRA 13:7)
(Industrial equipment)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, Petr Mikhaylovich, doktor ekon.nauk; KONDRASHEV, D., otv. red.; LOGOVINSKAYA, R., red. izd-va; LEBEDEV, A., tekhn.red.

[Ways for decreasing construction costs] Rezervy snizheniia stoimosti stroitel'stva. Moskva, Gosfinizdat, 1958. 87 p. (MIRA 11:12)
(Construction industry--Costs)

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Pavlov, Petr Mikhaylovich

Rezervy Snizheniya Stoimosti Stroitel'stva

Reserves Reducing the Cost of Construction

Moskva, Gosfinizdat, 1958

87 p. tables

Bibliographical Footnotes

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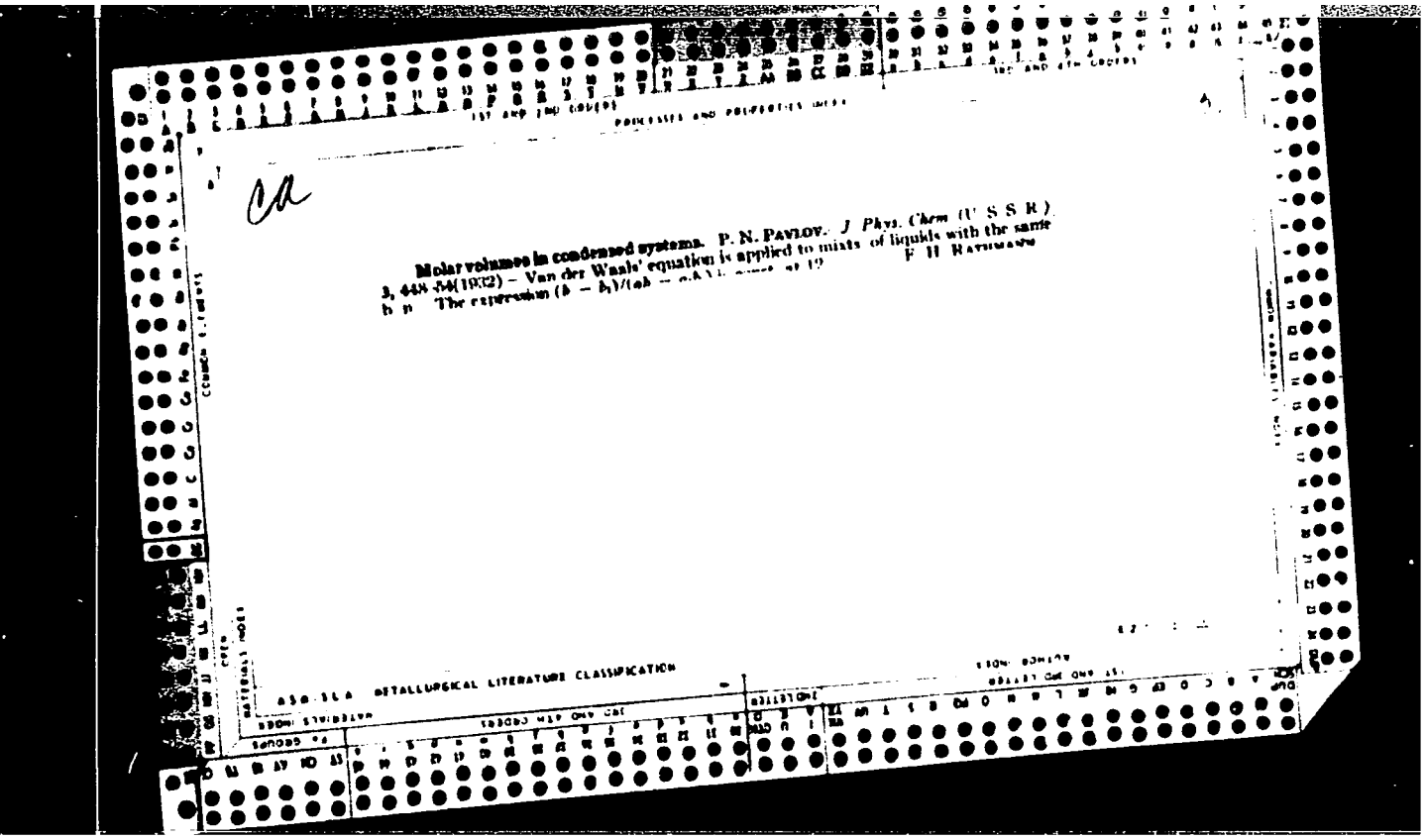

Molar volumes in condensed systems. P. N. PAVLOV. *J Phys. Chem (U S S R)*. 3, 448-54(1932) – Van der Waals' equation is applied to mists of liquids with the same [illegible] The expression $(b - b_1)/(ab - a_1b_1)$ [illegible] F H Ravenscroft

METALLURGICAL LITERATURE CLASSIFICATION

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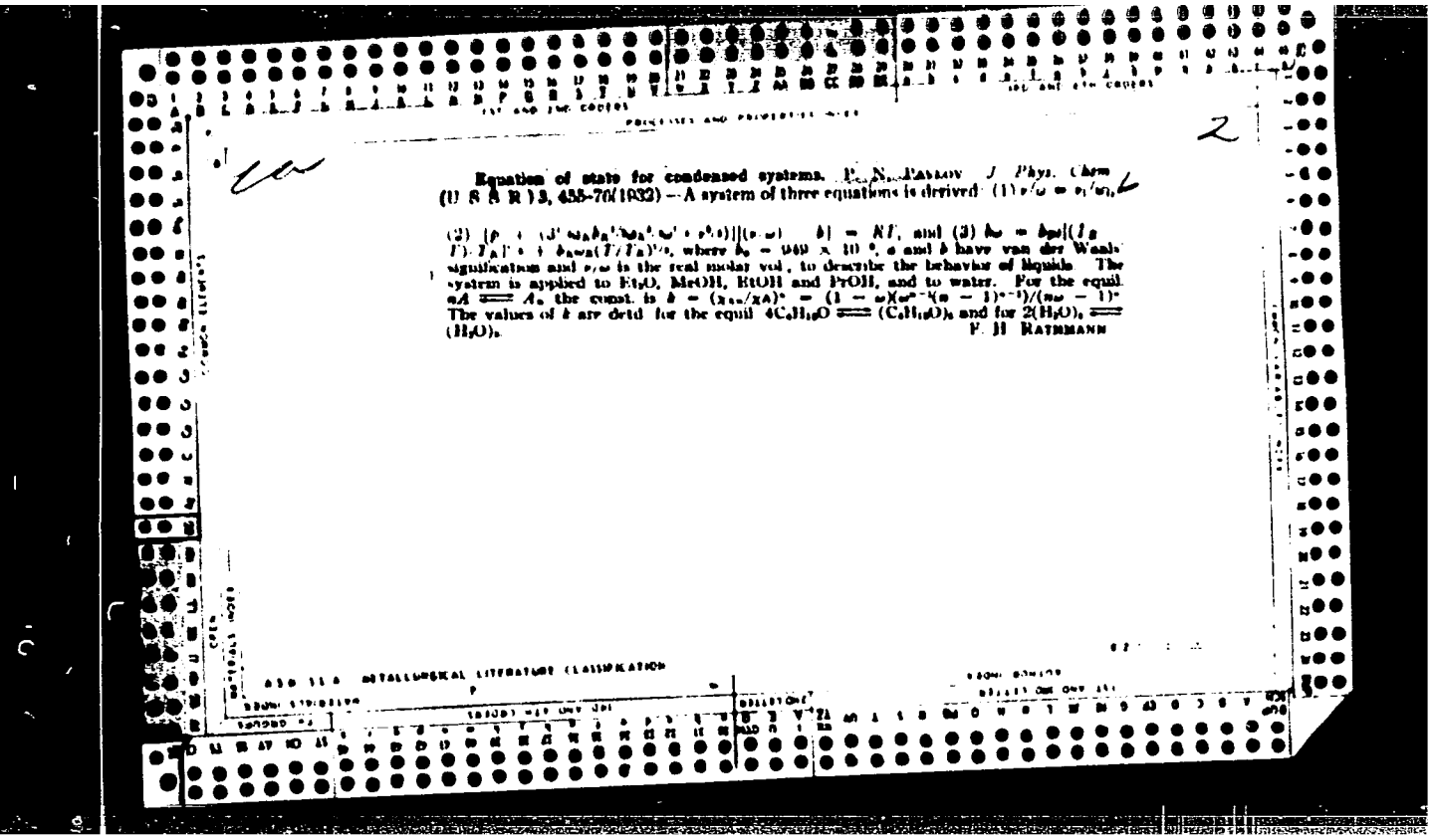

Equation of state for condensed systems. P. N. Dasson J. Phys. Chem (U S S R) 3, 455-70(1932).—A system of three equations is derived: (1) $p/\rho = \rho/m$, (2) $(p + \ldots)(v - b) = RT$, and (3) $b_0 = b_{pc}[(T_c/T) - T_c/T + \ldots]$, where $b_0 = 0.60 \times 10^{-6}$, $a$ and $b$ have van der Waals significations and $\rho/m$ is the real molar vol., to describe the behavior of liquids. The system is applied to $Et_2O$, MeOH, EtOH and PrOH, and to water. For the equil. $nA \rightleftharpoons A_n$ the const. is $k = (x_{A_n}/x_A^n) = (1 - \alpha)(\alpha^{n-1}(n - 1)^{n-1})/(n - 1)^n$. The values of $k$ are detd. for the equil. $4C_5H_{10}O \rightleftharpoons (C_5H_{10}O)_4$ and for $2(H_2O)_2 \rightleftharpoons (H_2O)_4$.

P. H. Ratermann

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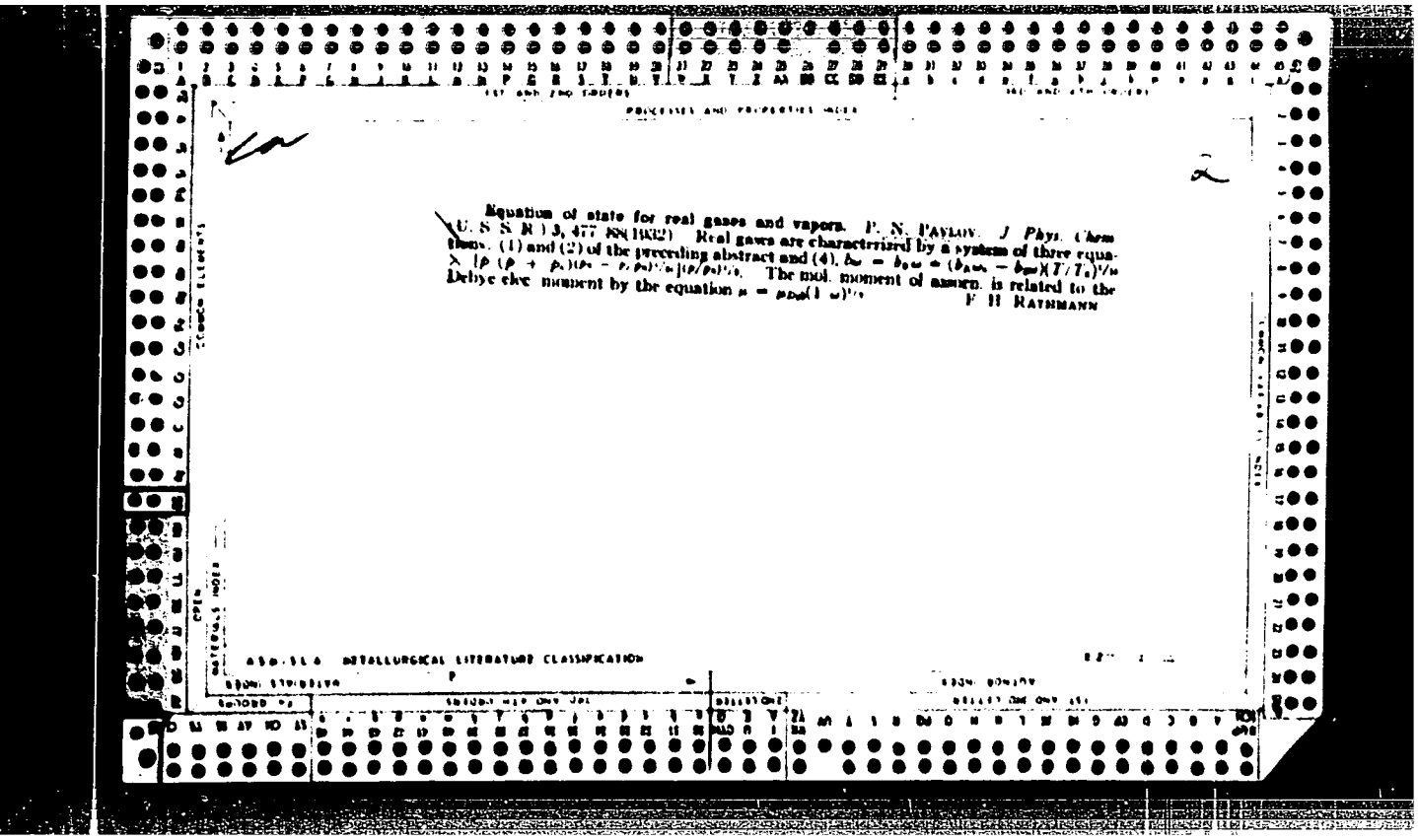

Equation of state for real gases and vapors. P. N. PAVLOV. *J Phys. Chem* (U. S. S. R.) 3, 477-88(1932). Real gases are characterized by a system of three equations. (1) and (2) of the preceding abstract and (4), $b_w = b_{0w} = (b_{Aw} - b_{Bw})(T/T_0)^{1/n}$ $\times [p(p + p_i)(p_i - p_0)^{1/n}]/p_0^{1/n}$. The mol. moment of assocn. is related to the Debye elec. moment by the equation $\mu = \mu_{Bw}(1 - w)^{1/n}$. F. H. RATHMANN

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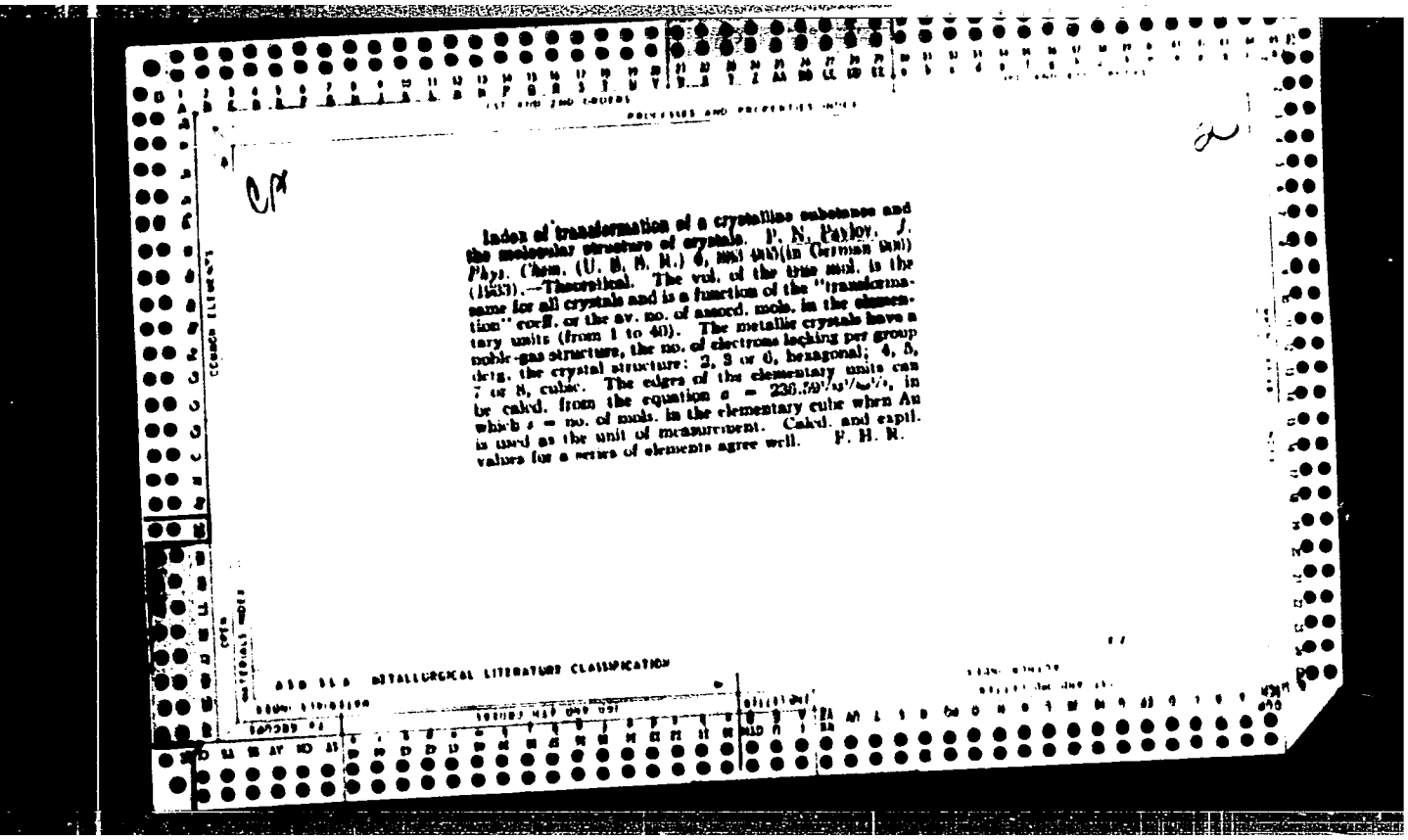

Index of transformation of a crystalline substance and the molecular structure of crystals. P. N. Pavlov. *J. Phys. Chem. (U. S. S. R.)* 6, [illegible] (in German [illegible]) (1933).—Theoretical. The vol. of the trans. unit, is the same for all crystals and is a function of the "transformation" coeff., or the av. no. of associd. mols. in the elementary units (from 1 to 40). The metallic crystals have a noble-gas structure, the no. of electrons lacking per group determ. the crystal structure: 2, 3 or 6, hexagonal; 4, 5, 7 or 8, cubic. The edges of the elementary units can be calcd. from the equation $a = 230.59^{1/3}s^{1/3}/m^{1/3}$, in which $s$ = no. of mols. in the elementary cube when Au is used as the unit of measurement. Calcd. and exptl. values for a series of elements agree well. F. H. R.

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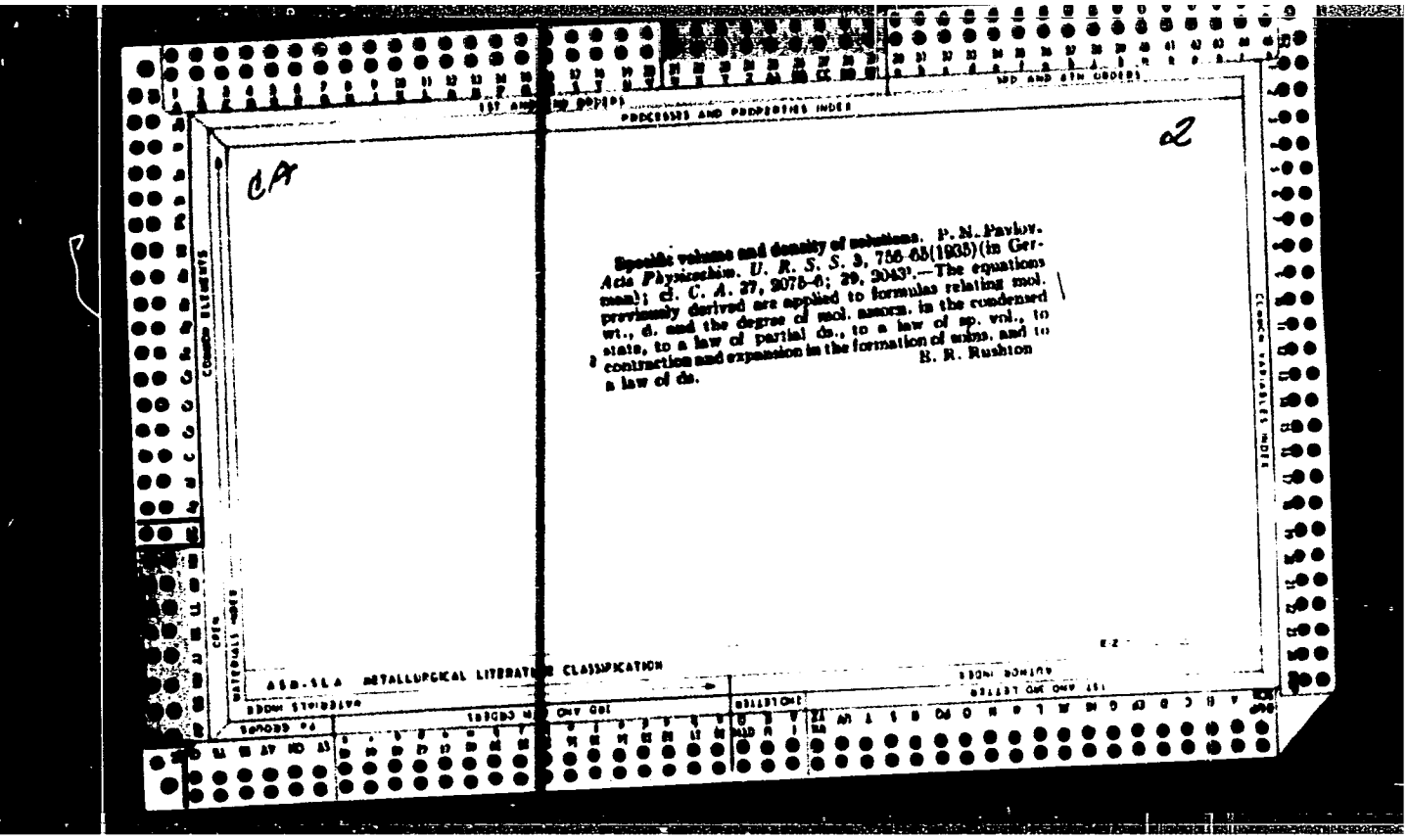

Specific volume and density of solutions. P. N. Pavlov. *Acta Physicochim. U. R. S. S.* 3, 755-68(1935)(in German); cf. *C. A.* 27, 2078-9; 29, 2043⁹.—The equations previously derived are applied to formulas relating mol. wt., d. and the degree of mol. assocn. in the condensed state, to a law of partial ds., to a law of sp. vol., to contraction and expansion in the formation of solns. and to a law of ds.

B. R. Rushton

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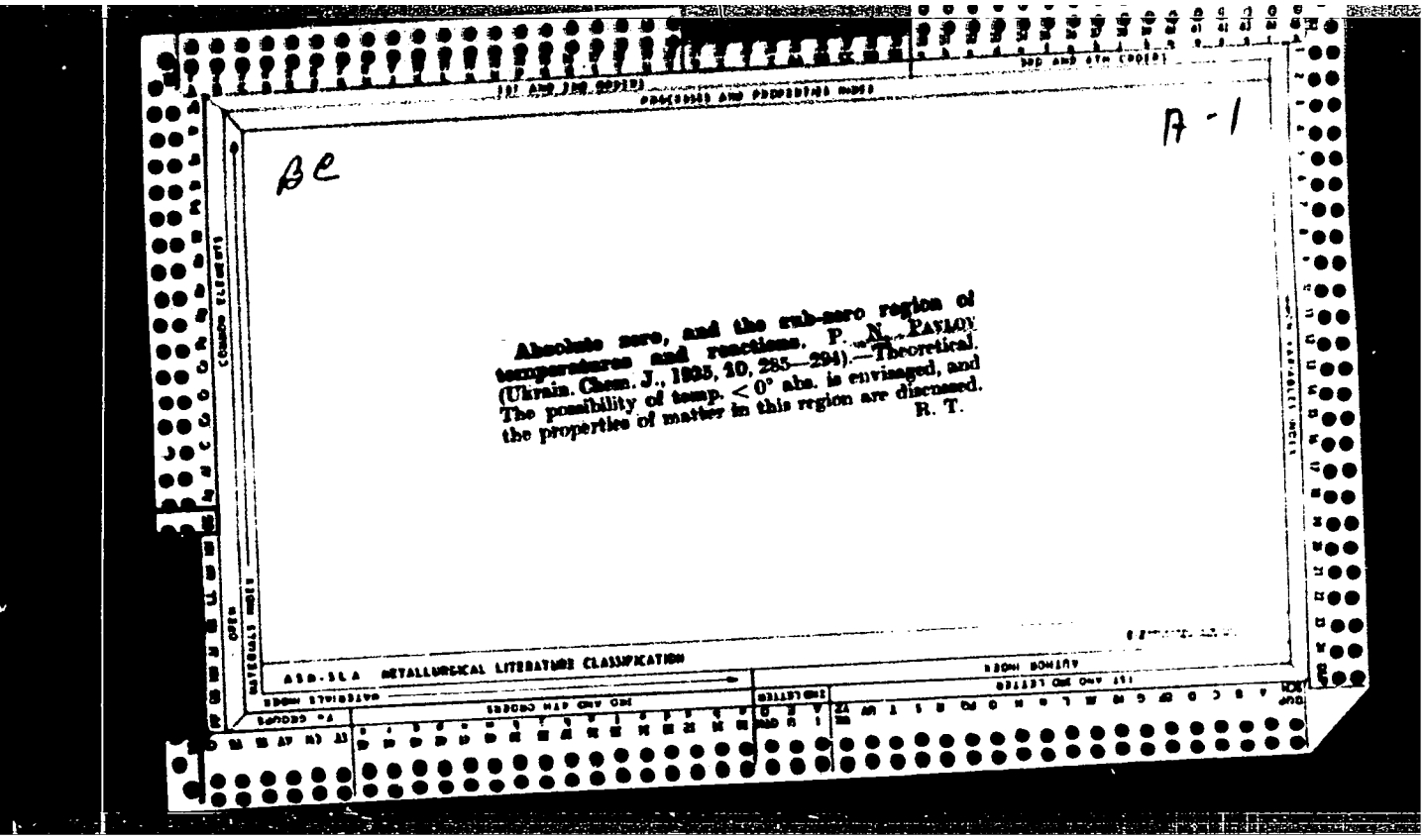

BC

A-1

Absolute zero, and the sub-zero region of temperatures and reactions. P. N. PAVLOV (Ukrain. Chem. J., 1935, 10, 285—294).—Theoretical. The possibility of temp. $< 0°$ abs. is envisaged, and the properties of matter in this region are discussed. R. T.

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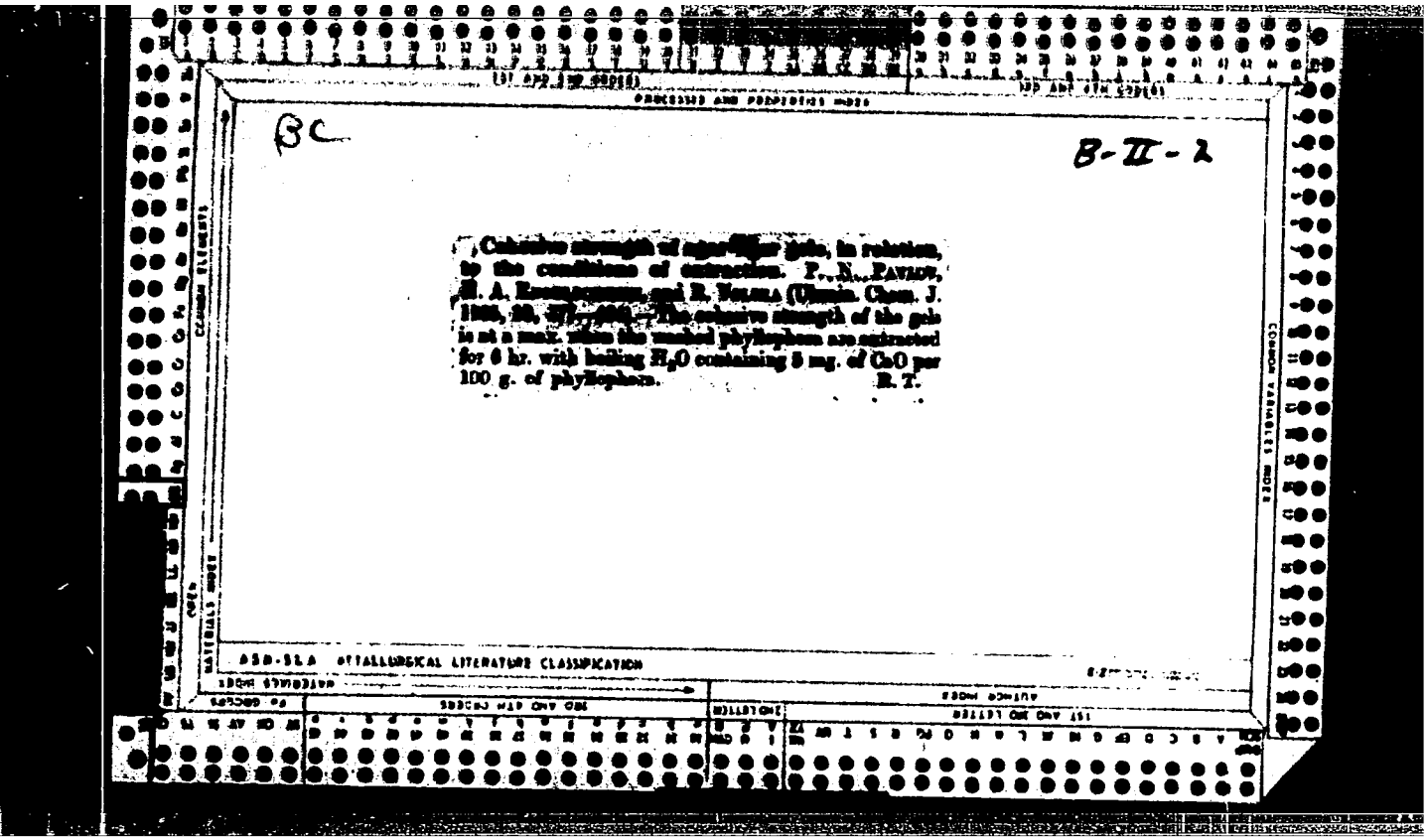

BC

B-II-2

, Cohesive strength of agar films, in relation, to the conditions of extraction. P. N. PAVLOV, M. A. [illegible], and R. VOLMA (Ukrain. Chem. J. 1938, 13, [illegible]). The cohesive strength of the gels is at a max. when the washed phyllophora are extracted for 6 hr. with boiling $H_2O$ containing 8 mg. of CaO per 100 g. of phyllophora. R. T.

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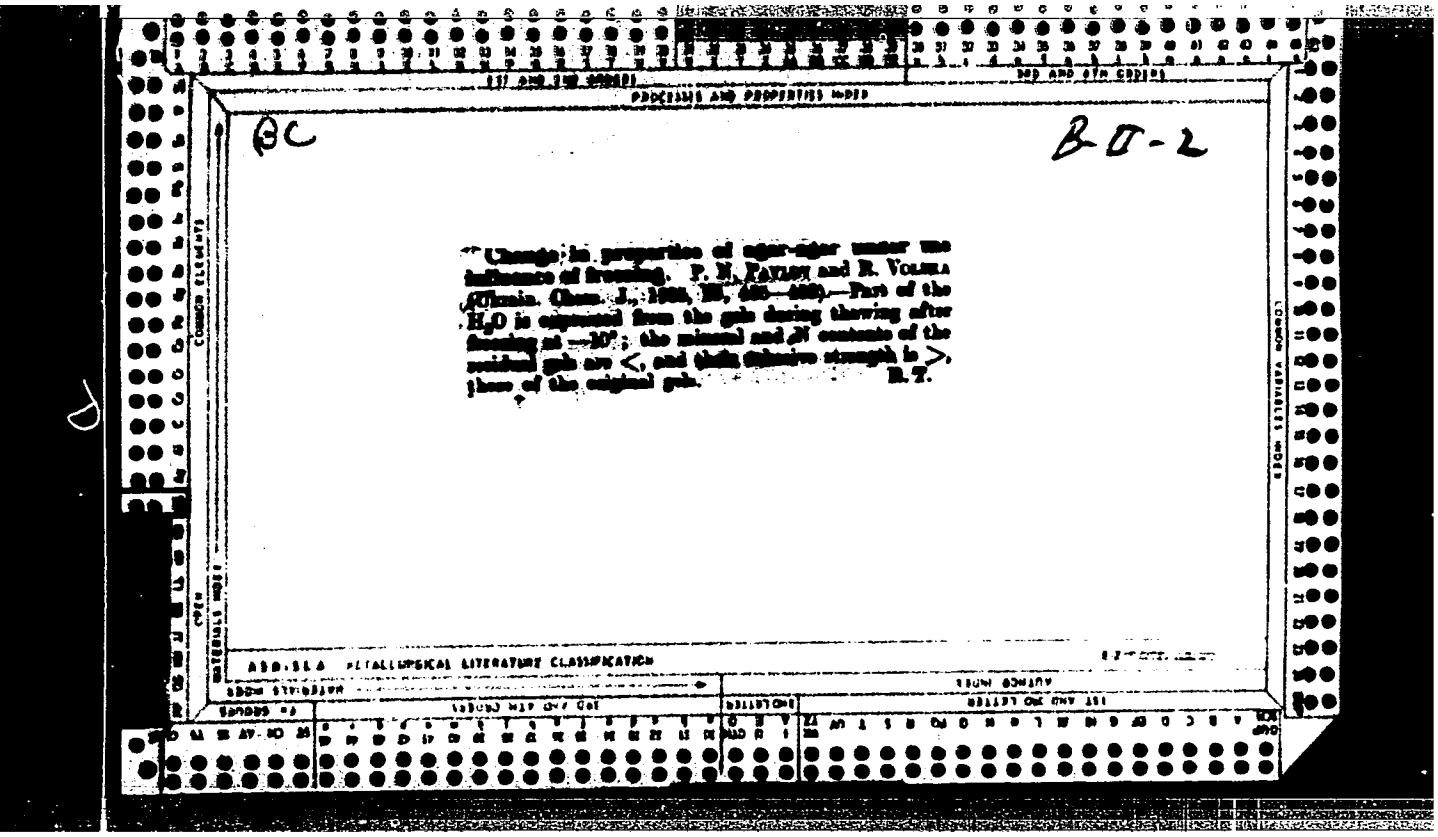

BC

B D-2

Changes in properties of agar-agar under the influence of freezing. P. N. Pavlov and R. Volkra (Illinois. Chem. J., 1938, 10, 483—488).—Part of the $H_2O$ is expressed from the gels during thawing after freezing at —10°; the mineral and pH contents of the residual gels are <, and their cohesive strength is >, those of the original gels. R. T.

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

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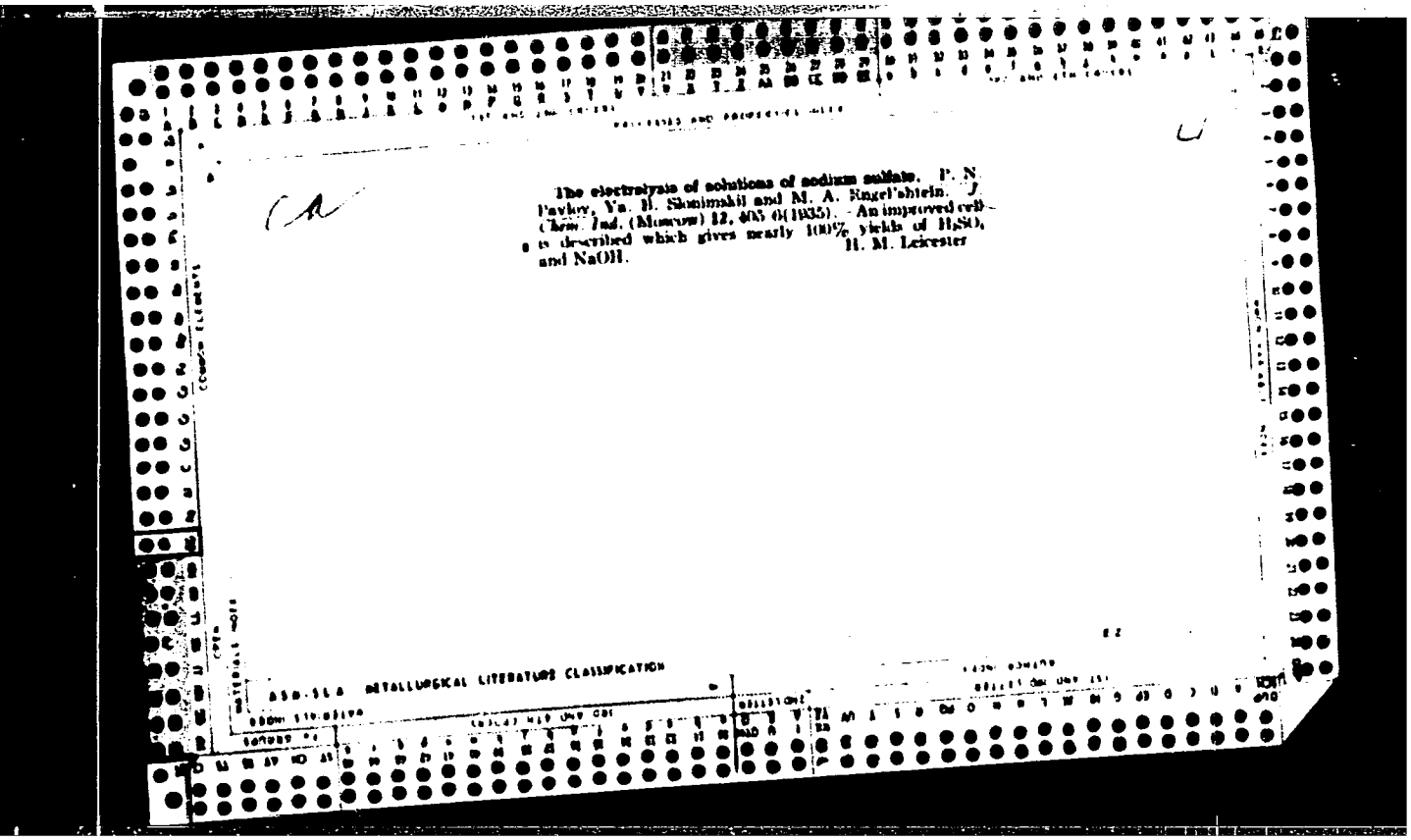

The electrolysis of solutions of sodium sulfate. P. N. Pavlov, Ya. B. Skanimskii and M. A. Engel'shtein. J. Chem. Ind. (Moscow) 12, 903-6(1935). — An improved cell is described which gives nearly 100% yields of $H_2SO_4$ and NaOH. H. M. Leicester

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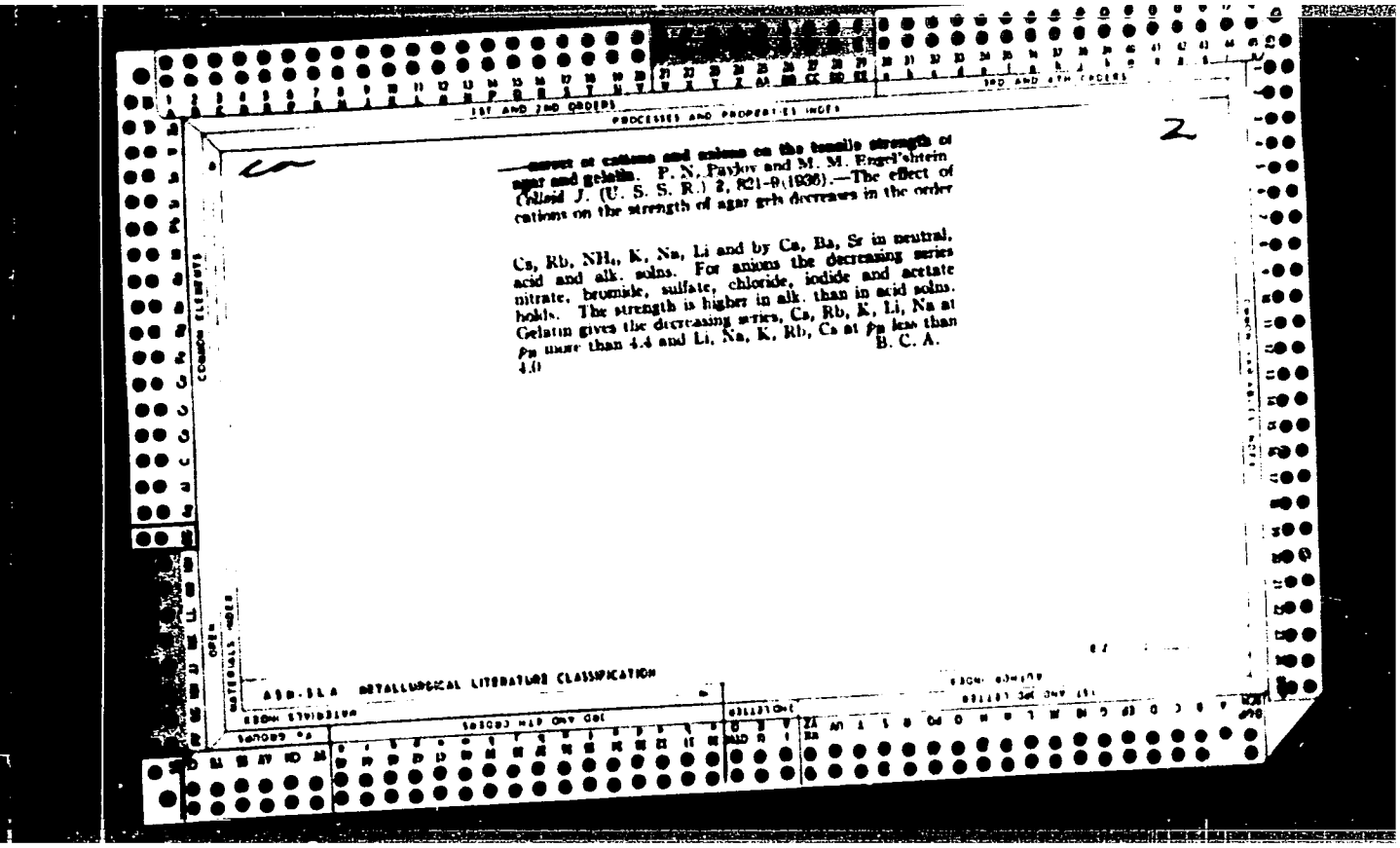

—nature of cations and anions on the tensile strength of agar and gelatin. P. N. Pavlov and M. M. Engel'shtein (Colloid J. (U. S. S. R.) 2, 821–9 (1936)).—The effect of cations on the strength of agar gels decreases in the order Cs, Rb, $NH_4$, K, Na, Li and by Ca, Ba, Sr in neutral, acid and alk. solns. For anions the decreasing series nitrate, bromide, sulfate, chloride, iodide and acetate holds. The strength is higher in alk. than in acid solns. Gelatin gives the decreasing series, Cs, Rb, K, Li, Na at $P_H$ more than 4.4 and Li, Na, K, Rb, Cs at $P_H$ less than 4.0

B. C. A.

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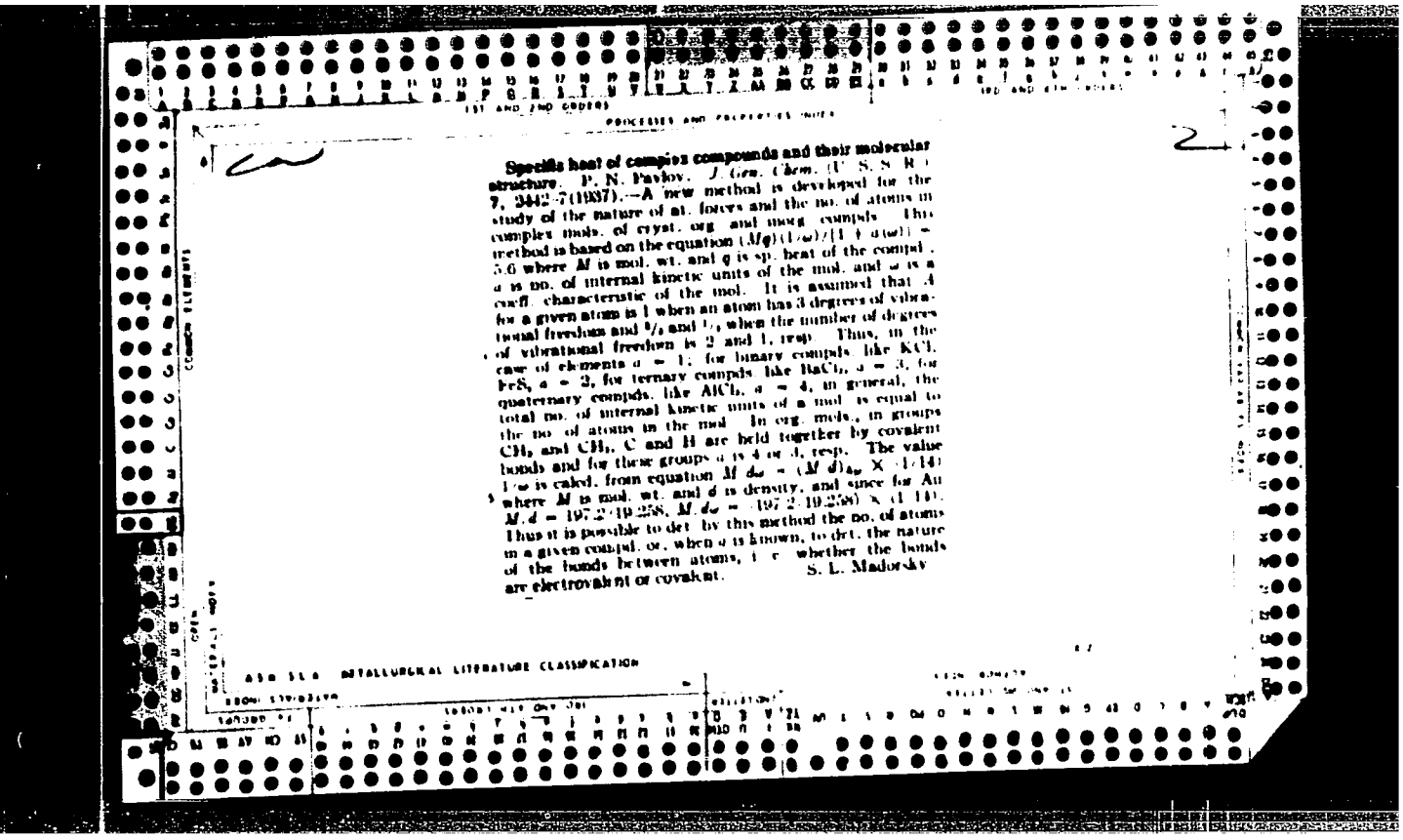

**Specific heat of complex compounds and their molecular structure.** P. N. Pavlov. *J. Gen. Chem. (U. S. S. R.)* 7, 2442–7 (1937).—A new method is developed for the study of the nature of at. forces and the no. of atoms in complex mols. of cryst. org. and inorg. compds. This method is based on the equation $(Mq)(1/\omega)/[1 + a(\omega)] = 5.6$ where $M$ is mol. wt. and $q$ is sp. heat of the compd., $a$ is no. of internal kinetic units of the mol. and $\omega$ is a coeff. characteristic of the mol. It is assumed that $A$ for a given atom is 1 when an atom has 3 degrees of vibrational freedom and ⅔ and ½, when the number of degrees of vibrational freedom is 2 and 1, resp. Thus, in the case of elements $a = 1$; for binary compds. like KCl, $a = 2$, for ternary compds. like $BaCl_2$, $a = 3$, for quaternary compds. like $AlCl_3$, $a = 4$, in general, the total no. of internal kinetic units of a mol. is equal to the no. of atoms in the mol. In org. mols., in groups $CH_3$ and $CH_2$, C and H are held together by covalent bonds and for these groups $a$ is 4 or 3, resp. The value $1/\omega$ is calcd. from equation $M\,d\omega = (M\,d)_{Au} \times (1/14)$ where $M$ is mol. wt. and $d$ is density, and since for Au $M.d = 197.2/19.258$, $M.d\omega = 197.2/19.258) \times (1/14)$. Thus it is possible to det. by this method the no. of atoms in a given compd. or, when $a$ is known, to det. the nature of the bonds between atoms, i. e. whether the bonds are electrovalent or covalent. S. L. Madorsky

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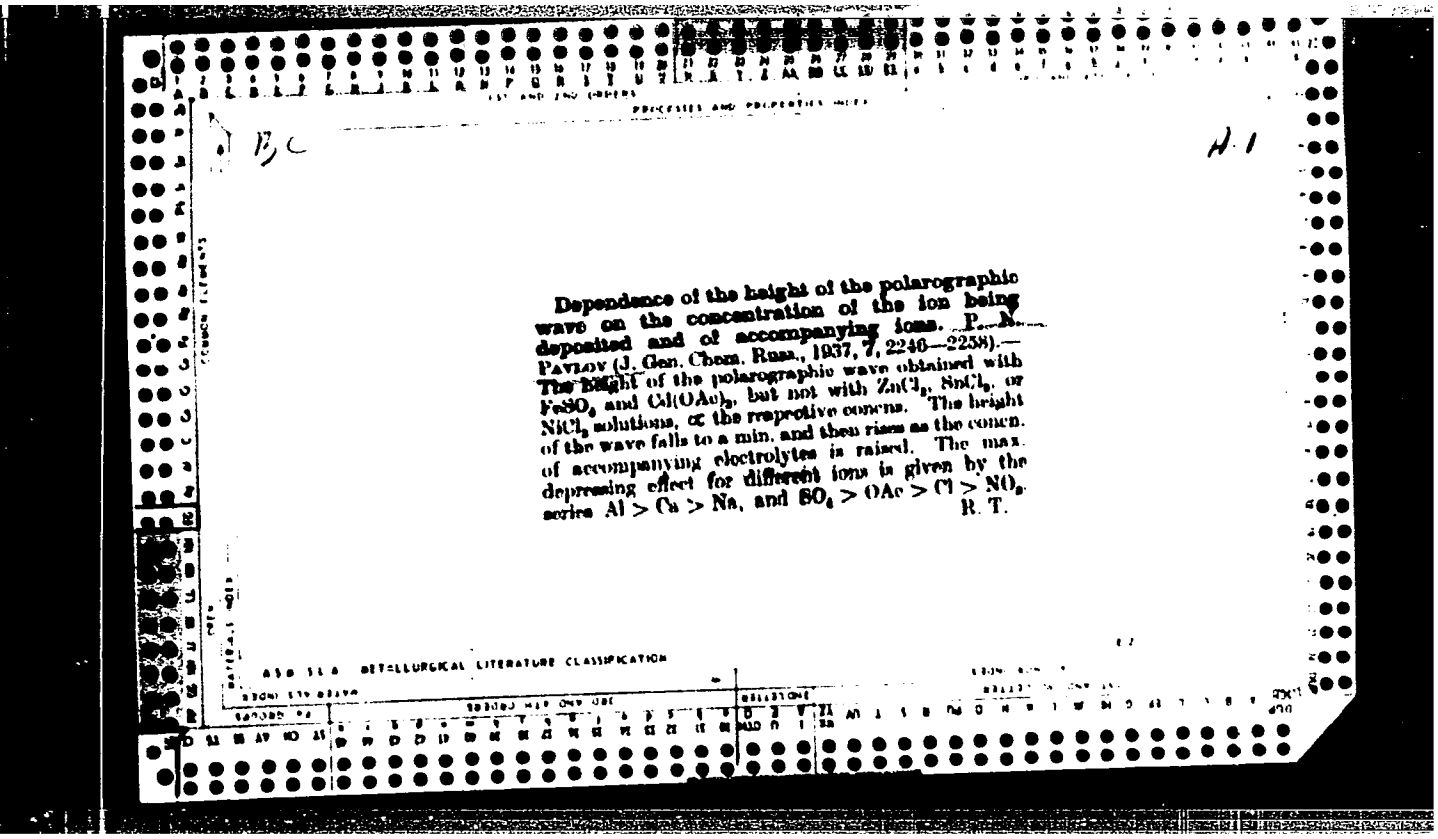

B/C

H-1

Dependence of the height of the polarographic wave on the concentration of the ion being deposited and of accompanying ions. P. N. Pavlov (J. Gen. Chem. Russ., 1937, 7, 2246—2258).— The height of the polarographic wave obtained with $FeSO_4$ and $Cd(OAc)_2$, but not with $ZnCl_2$, $SnCl_2$, or $NiCl_2$ solutions, at the respective concns. The height of the wave falls to a min. and then rises as the concn. of accompanying electrolytes is raised. The max. depressing effect for different ions is given by the series Al > Ca > Na, and $SO_4$ > OAc > Cl > $NO_3$.

R. T.

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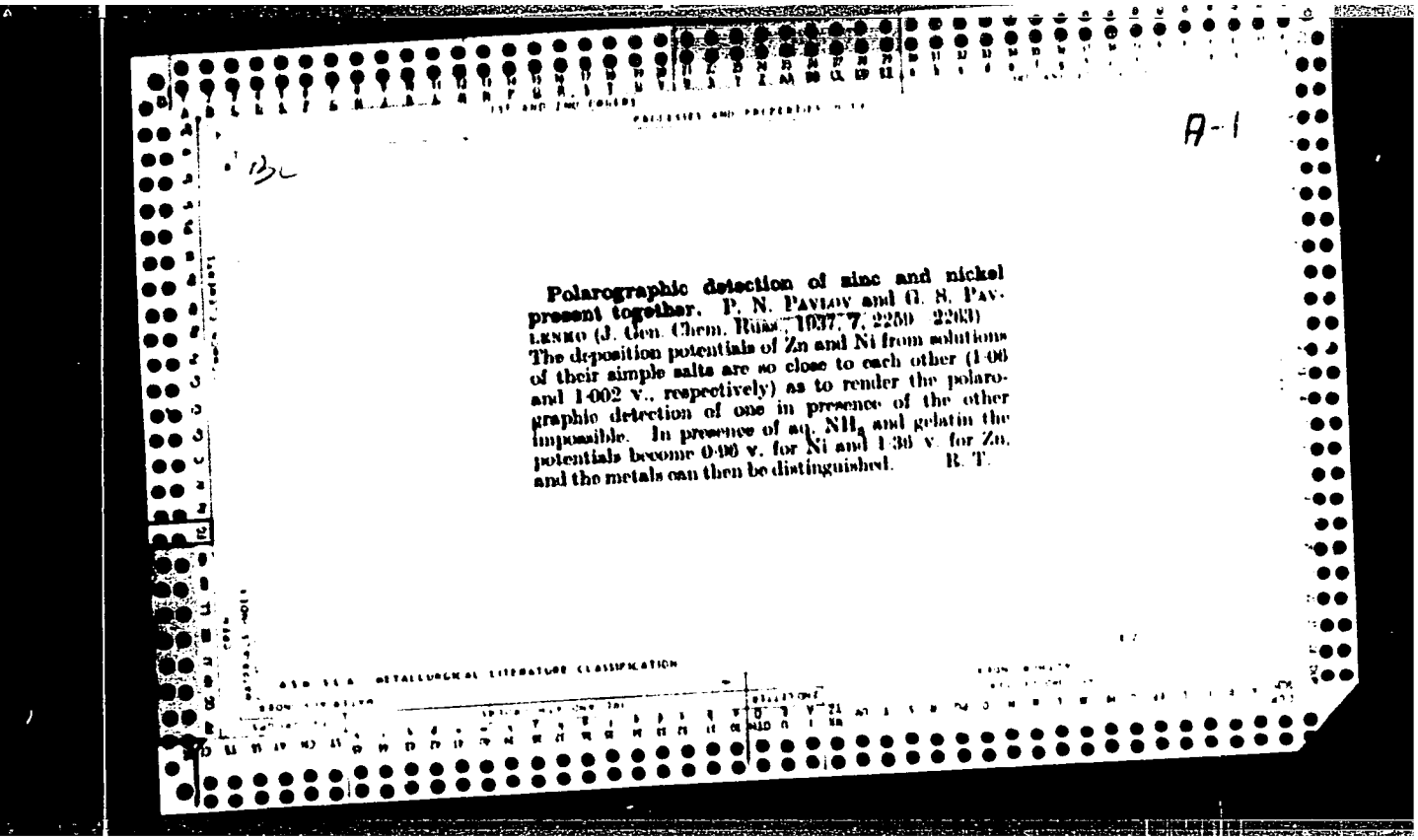

A-1

**Polarographic detection of zinc and nickel present together.** P. N. PAVLOV and G. S. PAVLENKO (J. Gen. Chem. Russ., 1937, 7, 2259–2263). The deposition potentials of Zn and Ni from solutions of their simple salts are so close to each other (1·00 and 1·002 v., respectively) as to render the polarographic detection of one in presence of the other impossible. In presence of aq. $NH_3$ and gelatin the potentials become 0·90 v. for Ni and 1·30 v. for Zn, and the metals can then be distinguished. R. T.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P. N.

37219. Poverkhnostnoye natyazheniye i povyerkhnostnaya adsorbtsiya rastvorov soley. Trudy odes. Gos. un-ta im. Mechnikova, T. V, 1949, s. 5-42. - Bibliogr: 7 Nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, T. N.

37213. Poverkhnostnoye natyazheniye i poverkhnostnaya adsorbtsiya na tverov. Trudy. Odes. Gos. un-ta im. mechnikova, T. v. 1949, sl 43-71.

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P. N.

37217. Zavisimost' poverkhnostnogo natyazhyeniya i povyepkhnostnoy plotnosti indvidual'nykh zhidkostey ot tyemperatury. Trudy odes. Gos. un-ta im. Mechnikova, T. v. 1949, s. 73-83. - Bibliogr: 6 Na.v.

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P. N.

37220. Polnaya energiya i entropiya poverkhnostnogo sloya. Trudy. Odes. Gos. un-ta im. Mechnikova, T. V, 1949, s. 85-88.

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P. N.

37221. Uprugost' para kapel'zeren pri raznykh temperaturakh. Trudy Odes. Gos. un-ta im. Mechnikov, T. V, 1949, s. 89-96. - Bibliogr: 7 Nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

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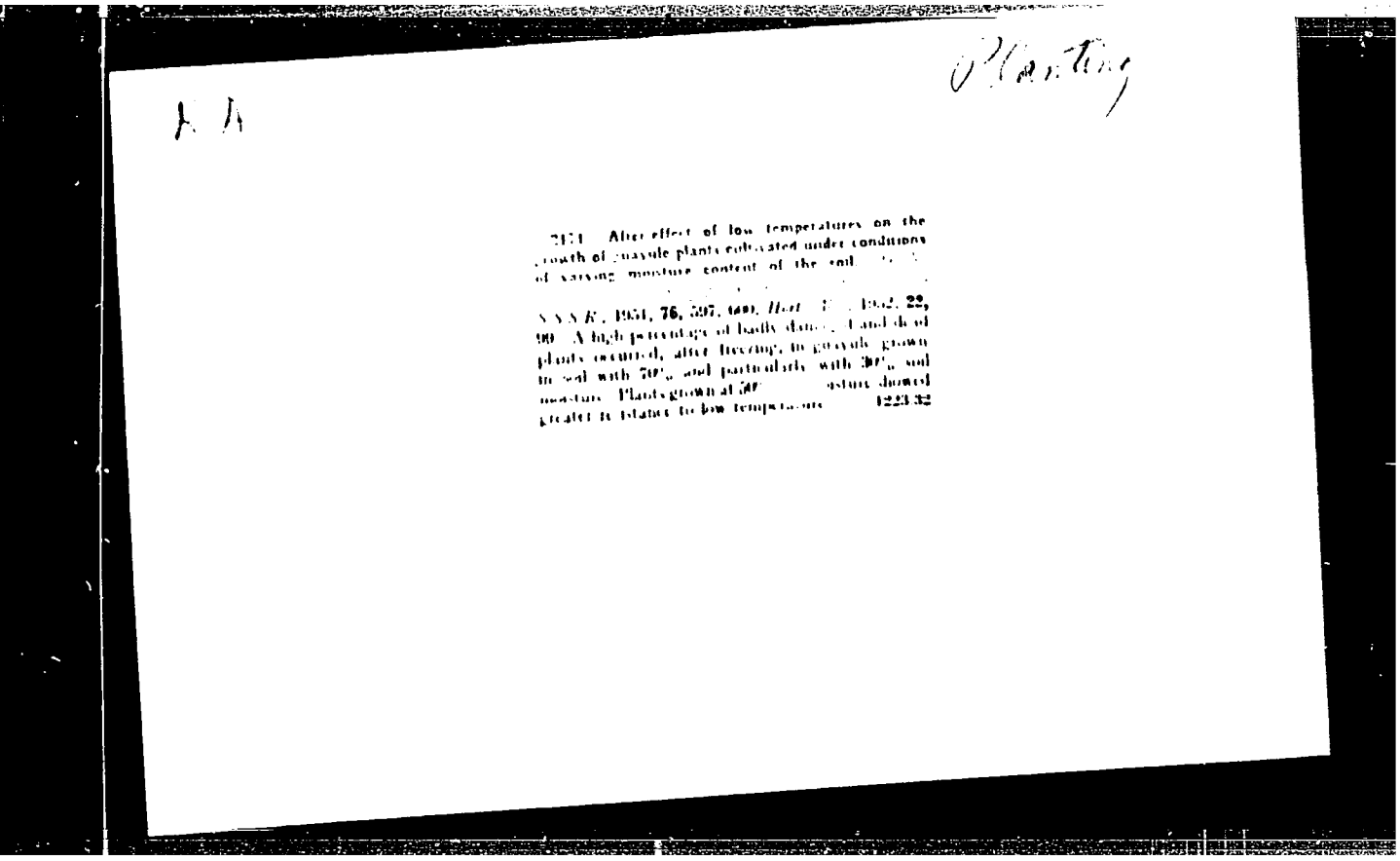

2[illegible] After-effect of low temperatures on the growth of cotton plants cultivated under conditions of varying moisture content of the soil [illegible]

S.S.S.R., 1951, 76, 597, 449). *Biol.* [illegible], 1952, 22, 90. A high percentage of badly damaged and dead plants occurred, after freezing, in cotton grown in soil with 70% soil moisture and particularly with 30% soil moisture. Plants grown at 50% [illegible] moisture showed greater resistance to low temperatures. 1223.32

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P. N.

Valves

Repair of a butterfly angle valve; Rab. energ. 2 no. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, May 1952 UNCLASSIFIED.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

USSR/Mathematics - Modern Algebra Sep/Oct 52

"Silov p-Subgroups of a Complete Linear Group Over a Simple Field of Characteristic p," P. P. Pavlov

"Iz Ak Nauk SSSR, Ser Matemat" Vol 16, No 5, pp 437-458

Investigates the Silov p-subgroup of a linear group over a field of p elements. Finds the generatrices of this group and the relations among them which define the group. Also finds the group of all

226T69

automorphisms of the studied group. Cites Dubisch and Perlis, "On Total Nilpotent Algebras," Amer Jour of Math, 73, 1951, pp 439-452. Submitted by Acad I. M. Vinogradov 18 Jan 52.

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PAVLOV, P. P.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P.P.

"Motion of Emulsified Oils for Small Values of the Reynolds Parameter" Dokl. AN Az SSR, Vol 10, No 7, 1954, 467-471 (Azerbaydzhani resume)

The author describes and gives results of experiments in determining pressure loss during the pumping of emulsified oils for smallvalues of R, the Reynolds number. He shows that for R between 20 and 35 the Coefficient of hydraulic resistance is in agreement with the formula 64 divided by R. He shows that for smaller values of R the correct formula is $64(1+F)/R$, where F ia a function of the Reynolds number depending on viscosity. (RZhMekh, No 9,1955)

Energetics Inst., AS Azerbaydzhan SSR.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, Petr Petrovich; SHIBAYEV, G.I., redaktor; RZAYEV, I.M., tekhnicheskiy redaktor.

[Fire prevention in the petroleum industry] Protivopozharnye meropriiatiia v neftepromyslovom dele. Baku, Azerbaidzhanskoe gos. izd-vo neftianoi i nauchno-tekhn. lit-ry, 1955. 127 p. (MLRA 9:4)
(Petroleum industry--Fires and fire prevention)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P.P.; KHOVANOVA, A.M.

Variation in the fractional composition of petroleum and petroleum products during free-surface combustion. Uch.zap.agu no.6:21-27 '55. (MLRA 9:11)

(Petroleum) (Combustion)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P.P., kandidat tekhnicheskikh nauk.

Viscosity of petroleum oil emulsions. Trudy Azerb.ind.inst. no.9:76-81 '55. (Viscosity) (Petroleum) (MLRA 9:10)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P.P.

Changes in the fractional composition of petroleum and petroleum products during combustion on a free surface. P. P. Pavlov and A. M. Khovanova. *Trudy Azerbaidzhan. Ind. Inst. im. M. Azizbekova* 1955, No. 11, 78–83(in Russian); cf. preceding abstr.—Combustion of petroleum and petroleum products was studied in open vessels 0.42–3.64 m. in diam. by the detn. of the gravity, and the kinematic viscosity of the material before and after 30–150 min. combustion. The sp. gr. increased in the surface layer of the material and throughout the whole heated zone, and the rise in sp. gr. was lower in larger vessels. The gum content, viscosity, sp. gr., and the flash point are raised, indicating a progressive loss of volatile products. The sp. gr. does not increase sufficiently in the surface layer to cause any appreciable migration of the heavier products into the underlying layers. W. M. Sternberg

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

~~AUTHOR:~~ PAVLOV, P. P.

Combustion of petroleum and petroleum oils in open containers. P. P. Pavlov and A. M. Khovanova. *Trudy Azerbaidzhan. Ind. Inst. im. M. Azizbekova* 1955, No. 11, 85-90(in Russian); cf. *C.A.* 50, 7430b.—The rate of combustion of crude oils, gasoline, kerosine and residuum in burning storage tanks was studied by using an open vessel 0.8 m. in diameter, 0.90 m. high, 2.5 mm. wall thickness, and equipped with 20 thermocouples for measuring the temp. of the products, of the walls, and of the flame. The burning rate depends on the time of burning, the sp. gr. of the material, and its heating value. The results are presented graphically.

W. M. Sternberg

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P.P.; KHOVANOVA, A.M.

Snuffing out fires of oil and petroleum products on free surfaces in tanks. Dokl. AN Azerb.SSR 12 no.7:453-457 '56. (MLRA 9:10)

1. Predstavleno akademikom Akademii nauk Azerbaydzhanskoy SSR Kh.I. Amirkhanovym.
(Petroleum--Storage) (Petroleum industry--Fires and fire prevention)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, Petr Petrovich; KOCHARYANTS, Sh.M., redaktor; AL'TMAN, T.B., redaktor izdatel'stva

[Using surface-active agents in oil extraction] Primenenie poverkhnostno-aktivnykh veshchestv pri dobyche nefti. Baku, Azerbaidzhanskoe gos.izd-vo neft. i nauchno-tekhn.lit-ry. 1957. 40 p. (MLRA 10:9)
(Petroleum industry) (Surface-active agents)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

Pavlov, P.P.

112-6-11903

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr6, p. 20 (USSR)

AUTHOR: Kashin, Yu, V. and Pavlov, P.P.

TITLE: An Outfit for Testing of Electrical Flexible Cords for Bending (Ustanovka dlya ispytaniya elektricheskikh shnurov na soprotivleniye k izgibam)

PERIODICAL: Sbornik rats. predlozheniy, M-vo elektrotekhn. prom-sti SSSR, 1955, Nr 7-9.

ABSTRACT: The outfit imitates alternating $\pm 90^{\circ}$ bends to which the cord is subjected at the point of its attachment to the household electrical devices. A device (for example, a soldering iron) with its cord is fastened to a rocking lever; the cord is stretched vertically by a weight. As the lever swings once a minute the cord is bent at the point of attachment to the device; after a while, one of the wires breaks. Here the motor is automatically stopped and a red signal lighted. The number of double bends registered by a meter serves as a charcteristic of bending resistance of the cord.

R. M. L.

ASSOCIATION: Sevkabel' plant, Leningrad

Card 1/1

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SOV-90-58-10-1/9

AUTHORS: Pavlov, P.P., Kulikov, B.A., Ruvimskiy, V.A., Vol'pe, [illegible]

TITLE: The Determination of the Permissible Current Load of a Single Strand of KTO-4 Logging Cable (Opredeleniye dopustimoy tokovoy nagruzki odinarnoy zhily karotazhnogo kabelya KTO-4)

PERIODICAL: Energeticheskiy byulleten', 1958, Nr 10, pp 1 - 3 (USSR)

ABSTRACT: The authors state that at the present time, old KTO-4 cable, unsuitable for logging, is being used in the oil industry for the illumination of borings. The Baku laboratory of TsNIIPO and the All-Union Scientific Research Institute for Safety Measures in the Oil Industry (VNIITB) have carried out an experiment to find the permissible current load of a single strand of KTO-4 logging cable, under a surrounding temperature of 35° C, and the maximum permissible temperature for the heat-resistant rubber insulation of the strand, according to the catalogue 65° C. The experiment was carried out on a section of an insulated strand 1.5 meters long, placed in a thermostat where the temperature was 35°. The current was fed to the strand from the lower side of a 220/12 volt transformer with a capacity of 300 watts, which was supplied from a 220 volt network. With the temperature

Card 1/2

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in the thermostat at 35°, the current flowing through the cable was found to be 25.5 amps when the temperature in the steel strand of the cable was 65°. Separate insulated strands of KTO-4 logging cable can therefore be used for lighting purposes providing the current load does not exceed 25 amps and the voltage is not over 220 v. The authors then give a formula for calculating the maximum length of strand which can be used. Besides the conclusions given above, the authors finally give the following: 1) the safety devices on the line should not be set higher than 25 amps; 2) KTO-4 cable cannot be used for feeding lighting or power loads either as a complete cable or in separate strands; 3) when the strands are used in external wiring they should be fastened to porcelain insulators; 4) the strands can only be used in lighting systems if the colored layer of rubberized linen is left on the rubber insulation. There is one diagram.

**1. Electric cables--Electrical properties 2. Electric cables --Insulation**



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D207/D304

6.7100

AUTHOR: Pavlov, P.P.

TITLE: Electromagnetic field and current distribution along an infinite isolated conductor in a conducting medium

PERIODICAL: Radiotekhnika i elektronika, v. 6, no. 8, 1961, 1293 - 1307

TEXT: The purpose of this paper is to derive expressions for the field and current distribution, and to give a more rigorous basis for the customary use of telegraph equations in treating the finite isolated-conductor antenna as a transmission-line section with losses. Three media are considered in determining the electromagnetic field: 1) The conductor, characterized by $\epsilon_1$, $\mu_1$ and $\sigma_1$; 2) A cylindrical cavity filled by an insulating material having the parameters $\epsilon_2$, $\mu_2$ and $\sigma_2$; 3) A conducting medium, $\epsilon_3$, $\mu_3$, $\sigma_3$. The solution of the wave equation is discussed for the cylindrical

Card 1/6

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cavity and for the absorbing medium. The current in the conductor $I_z$ is related to the $H_{\varphi 2}$ field component in the cylindrical cavity, $I_z = 2\pi r H_{\varphi 2}$. The expression for the current is

$$I_z = -i\frac{2\omega\varepsilon_{k3}\mathcal{E}}{\pi}\int_{-\infty}^{+\infty}\frac{v_3}{v_2^3 D}H_1^{(1)}(v_3 R_0)\,e^{i\gamma z}\,d\gamma. \qquad (28)$$

where the functions $v_2 = \sqrt{k_2^2 - \gamma^2}$ and $v_3 = \sqrt{k_3^2 - \gamma^2}$ are two-valued functions on the plane of the complex variable $\gamma$. The branch points are $\gamma = \pm k_2$; $\gamma = \pm k_3$. In addition to these singular points the integral has a pole when $D = 0$, $\gamma = \gamma_{pl}$. D is the determinant of a system of equations obtained in solving the field distribution The equation expressing the $D = 0$ condition is very complicated in its original form, therefore, the cylindrical functions are replaced by their series approximations. The values of the singular



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integration contour represents a wave with an exponentially decreasing amplitude. This the so-called cable wave. It satisfies the telegraph equation. The other part of the solution, $J_{L'_R}$, corresponding to the singularities $\gamma = \pm k_3$ within the contour, represents a space wave. The amplitude of this wave decreases according to a very complicated law. To determine the dominant wave type, the author investigated the modulus $/J_{L'_R}/J_p/$ in the short, medium and long wave-bands. The results are given in Fig. 4, (continuous line - sea water; dashed line - wet soil; dash-dot line - dry soil). The abscissa axis shows the distance from the point where the external emf is applied. The conclusion is drawn that apart from a small initial section the cable waves dominate over the space waves. This supports the applicability of the telegraph equation to the theory of an isolated conductor embedded in sea water or wet soil. In dry soil, at frequencies below $3 \cdot 10^7$ cps the inequality



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$/J_{L',R}/J_p/ > 1$ exists along a relatively long distance from the excitation point. The author thanks L.A. Vaynshteyn for his discussion of the problem. There are 7 figures, 2 tables and 3 Soviet-bloc references.

SUBMITTED: July 16, 1960

Card 5/6

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

21.869 S/109/61/006/007/009/020
D262/D306

9,1200

AUTHOR: Pavlov, P.P.

TITLE: The electromagnetic field and current distribution along an infinite non-insulated conductor inside a conducting medium

PERIODICAL: Radiotekhnika i elektronika, v. 6, no. 7, 1961, 1106 - 1115

TEXT: In the present article the author analyzes the field of a non-insulated conductor of finite length for the frequency range 6 Kc/s to 30 Mc/s, assuming an ideally conducting infinitely long conductor. To find the current distribution and the input resistance function $\Pi$ is introduced

$$E_r = \frac{\partial}{\partial r}\left(\frac{\partial \Pi}{\partial z}\right), \qquad (1)$$

and Maxwell's equations are solved for a symmetrical field with re-

Card 1/5

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The electromagnetic field ...

spect to the conductor axis

$$\frac{\partial^2 \Pi}{\partial r^2} + \frac{1}{r}\frac{\partial \Pi}{\partial r} + \frac{\partial^2 \Pi}{\partial z^2} + \omega^2 \mu \varepsilon_a \Pi = 0. \qquad (2)$$

The unknown function A(y) is found from the boundary conditions at the surface of an ideal conductor

$$E_{exs} = - E_z \text{ for } r = \rho \qquad (8)$$

in which $E_{exs}$ is the field strength of extraneous forces at the conductor surface. In analyzing the propagation of electromagnetic waves along a single conductor, Vladimirskiy [Abstractor's note: Reference not specified] applies the boundary conditions of Leontovich

$$E_z + E_{exs} = \frac{\mu k}{k_a} H_{c\varphi},$$

where $k = \frac{\omega}{c}$; $k_a = \sqrt{\frac{\omega^2}{c^2} \varepsilon\mu + 4\pi i \mu\sigma}$

Card 2/5

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are wave numbers for vacuum and the conductor. In the discussed case, although the frequency is low, the field penetration can be disregarded owing to infinite conductiyity which permits several simplifying assumptions. After several transformations restricting the region of integration to the values $\tau$,

$$J_{L_R} = \frac{4\pi}{\rho} e^{ik_0 z} \int_0^m \frac{1}{\{\ln[-i\tau(2k_0 + i\tau)\rho^2]\}^2 + \pi^2} \frac{e^{-z\tau} d\tau}{-i\tau(2k_0 + i\tau)}. \quad (20)$$

is derived finally. Finally the expression for current $I_2$ in the conductors is derived as

$$I_z = i4\pi\omega\varepsilon_k \mathcal{E} e^{ik_0 z} \left\{ \frac{1}{i2k_0} \frac{e^{-zh}}{\ln(-i2k_0\rho^2) + \ln h} + \right.$$
$$+ \int_h^1 \frac{1}{\pi^2 + \{\ln[-i\tau(2k_0 + i\tau)\rho^2]\}^2} \frac{e^{-z\tau} d\tau}{-i\tau(2k_0 + i\tau)} + \quad (32)$$
$$\left. + \int_1^m \frac{1}{\pi^2 + \{\ln[-i\tau(2k_0 + i\tau)\rho^2]\}^2} \frac{e^{-z\tau} d\tau}{-i\tau(2k_0 + i\tau)} \right\}.$$

Card 3/5

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The electromagnetic field ...

and when denoting

$$F(z) = \frac{1}{i2k_3}\frac{e^{-zh}}{\ln(-i2k_3\rho^3)+\ln h} + \int_h^1 \frac{1}{\pi^2+\{\ln[-i\tau(2k_3+i\tau)\rho^3]\}^2}\frac{e^{-z\tau}d\tau}{-i\tau(2k_3+i\tau)} + \\ + \int_1^m \frac{1}{\pi^2+\{\ln[-i\tau(2k_3+i\tau)\rho^3]\}^2}\frac{e^{-z\tau}d\tau}{-i\tau(2k_3+i\tau)},$$

the final expression for Eq. (32) becomes

$$I_z = i4\pi\omega\varepsilon_{k_3}\mathfrak{G}e^{ik_3z}F(z). \qquad (33)$$

Using this formula, graphs were evaluated of the modulus of current as a function of z and of moduli $e^{ik_3z}$ and of function F(z) for a non insulated conductor of radius $\rho$ = 2 mm, placed in sea water, in wet and dry soil. Normalized graphs of moduli of the following functions: 1 - $/I_z/$; 2 - $/e^{ik_3z}/$; 3 - /F(z)/ for sea water, wet and

Card 4/5

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P.P.

Electromagnetic field and current distribution in an infinitely long noninsulated conductor submerged in a conductive medium. Radiotekh.i elektron. 6 no.7:1106-1115 Jl '61. (MIRA 14:6)
(Electric wire)
(Electromagnetic waves)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P.P.

Electromagnetic field and current distribution along an infinite insulated wire in a conductive medium. Radiotekh. i elektron 6 no.8:1293-1307 Ag '61. (MIRA 14:7)
(Antennas (Electronics))
(Radio waves)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P.P.

Electromagnetic field and the input resistance of a turn with an infinitely long cylindrical ferrite core located in a conductive medium. Radiotekh. i elektron. 7 no.3:437-447 Mr '62. (MIRA 15:2)
(Antennas (Electronics))
(Electromagnetic waves)
(Cores (Electricity))

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

S/109/62/007/003/010/029
D256/D302

9.1100 (1160)

AUTHOR: Pavlov, P.P.

TITLE: Electromagnetic field and input impedance of a turn on an infinitely long cylindrical ferrite core placed in a conducting medium

PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 3, 1962, 437 - 447

TEXT: Antennas comprising a single turn wound on an infinite ferrite core have been considered previously by several authors. In the present investigation the electromagnetic field and the input impedance are considered, for such an antenna placed in a conducting non-magnetic medium, including an account of the losses taking place in the ferrite core. The electromagnetic field of the system includes space waves as well as surface waves propagating along the ferrite rod. The antenna was considered at comparatively low frequencies ranging from 6 to 60 kc/s, and therefore it was justified to assume a uniform current distribution along the turn so

Card 1/2

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that in a cylindrical system of coordinates the vector potential entering the wave equation reduced to its angle-dependent component. Relations were derived describing in terms of the properties of the core and the surrounding medium the following parameters: The propagation constant of the surface waves; the directional characteristics of the system; the contribution of the core in increasing the field strength of the space waves and the input impedance of the turn. Numerical results are presented in a form of curves for the system submerged in sea water, showing that for the considered range of frequencies the input impedance is determined by the field of the surface wave. It is pointed out that a similar conclusion regarding the active component of the impedance is valid only for the lower frequencies of the range considered. There are 5 references: 4 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: P.A. Miles, et al., Rev. Mod. Phys., 1957, 29, 3, 279.

SUBMITTED: June 9, 1961

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

S/109/62/007/008/006/015
D409/D301

9.1100

AUTHOR: Pavlov, P.P.

TITLE: Electromagnetic field and input impedance of a loop with an infinitely long cylindrical ferrite core, coated with a dielectric and placed in a conducting medium

PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 8, 1962, 1322-1331

TEXT: The effect of the dielectric envelope on antenna efficiency is ascertained. This is of practical importance when the radiating system has to be isolated from the conducting medium; the dielectric makes the system mechanically stable and hermetic. It is required to find the field components in 3 media: the ferrite core, the dielectric, and the conducting medium. In the system under consideration, both space and surface waves propagate; the latter along the ferrite core. These waves are investigated over a frequency range of $6 \cdot 10^3$ to $6 \cdot 10^4$ cycles. After calculations, one

Card 1/3

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Electromagnetic field ...

obtains a transcendental equation for the propagation constant $\gamma$ of the surface waves. This equation is solved by the method of successive approximations; the results are listed in a table, together with the phase-shift constant $\alpha$ and the damping constant $\beta$. By comparing the obtained results with those of an earlier investigation by the author, it was found that the dielectric envelope leads to a decrease in $\alpha$, whereas $\beta$ is not affected. Further, the directivity characteristic of the loop under consideration is calculated (by an approximate method). It was found that the dielectric envelope has little effect on the shape of the directivity characteristic. The field-strength of the space wave is also little affected by the dielectric. In calculating the impedance $z_{input}$, the cylindrical functions entering the expression for the field strength, are approximated by the first terms of their series expansion; thereby one obtains integrals which are evaluated by numerical methods. The graphs for the active resistance and reactance, obtained by means of the electronic computer "Ural", are shown. It was found that the numerical method used, yielded sufficiently accurate results in the case of the reactance, whereas the resistance calcula-

Card 2/3

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

L 18490-63 FCS(k)/EWT(1)/BDS ASD/APGC Pi-4/Pj-4/Pl-4 WR

ACCESSION NR: AP3006454 S/0109/63/008/009/1523/1529

AUTHOR: Pavlov, P. P. 25B 66 65

TITLE: Insulated loop antenna with spherical ferrite core located in a conductive medium

SOURCE: Radiotekhnika i elektronika, v. 8, no. 9, 1963, 1523-1529

TOPIC TAGS: insulated loop antenna, insulated antenna, loop antenna, spherical ferrite core, ferrite core, core

ABSTRACT: A loop antenna with a spherical ferrite core placed in a dielectric envelope (to insulate it from the surrounding conductive medium) was the subject of a detailed theoretical investigation in the long-wavelength range. The purpose of the investigation was to determine the dependence of radiation impedance and input resistances on core permeability and on the ratio of the radius of the spherical envelope to the radius of the core. It was found that the radiation impedance of an insulated loop antenna in the long-wavelength range is virtually independent of the

Card 1/2

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

L 18490-63
ACCESSION NR: AP3006454

value of the relative ferrite permeability (at a relative permeability of 1000 or more). The spherical ferrite core can increase radiation impedance only nine times at the most. In order to obtain the maximum possible increase in field intensity in the conductive medium by means of a spherical ferrite core, it is necessary that the ratio of the envelope radius to the core radius be not less than two. "The author thanks D. N. Pokusin for his advice." Orig. art. has: 5 figures, 25 formulas, and 2 tables.

ASSOCIATION: none

SUBMITTED: 12Jul62 DATE ACQ: 30Sep63 ENCL: 00

SUB CODE: SD NO REF SOV: 000 OTHER: 003

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

ACC NR: AP6026424 SOURCE CODE: UR/0375/66/000/005/0068/0073

AUTHOR: Slavskiy, V. V. (Candidate of Technical Sciences); Pavlov, P. P. (Candidate of Technical Sciences)

ORG: None

TITLE: Superconductivity and its use in engineering

SOURCE: Morskoy sbornik, no. 5, 1966, 68-73

TOPIC TAGS: superconductivity, shipbuilding engineering, antifriction bearing, electric generator, electric motor, electromagnetic propulsion, transformer

ABSTRACT: Superconductivity, a relatively recent discovery (1911 by Dutch Physicist Heike Kamerlingh-Danes) has become exceedingly important in recent years, and superconductors have a great future in solving many technical problems because new superconducting materials with high critical parameters have made it possible to create a variety of technical devices and instruments. Those areas in which superconductors have received recognition by having been put to practical use, and which can be used in shipbuilding, are discussed in detail. Certain of these areas are frictionless end bearings, superconducting power transformers, superconductive electrical generators and motors, and electromagnetic propellers. The burgeoning development of research in this field makes possible the suggestion that present obstacles will be

Card 1/2

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

ACC NR: AP6026424

resolved successfully, and that the time is not far off when various types of superconducting devices will find widespread application in many branches of engineering. Orig. art. has: 5 figures.

SUB CODE: 20, 13/SUBM DATE: None/ORIG REF: 003

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

DAVIS, T.I., [illegible] -- ( )" [illegible]

[illegible] Medical Physical [illegible]), [illegible]



APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P.P.; ANTONOV, N.M.; KULIKOV, B.A.; PLOTKIN, M.Z.; KHOVANOVA, A.M.; SELINA, V.G.

Using fine water spray for extinguishing petroleum product fires. Izv.vys.ucheb.zav.; neft' i gaz 1 no.9:85-88 '58. (MIRA 11:12)

1. Azerbaydzhanskiy industrial'nyy institut imeni M. Azizbekova i TSentral'nyy nauchno-issledovatel'skiy institut protivopozharnoy oborony.

(Petroleum industry--Fires and fire prevention)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P.P.; KULIKOV, B.A.; RUVINSKIY, V.A.; VOL'PE, S.M.

Determining the permissible current load for a single conductor of the KTO-4 logging cable. Energ.biul. no.10:1-3 O '58.
(MIRA 11:11)

(Electric cables)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P. P.

The viscosity of crude-oil emulsions. P. P. Pavlov. *Trudy Azerbaidzhan. Ind. Inst. im. M. Azizbekova* 1955, No. 9, 78–80 (in Russian).—The viscosity of crude oil-water emulsions (I) depends on temp., concn., and the nature of the oil. The viscosity values for I are 10–12 times higher than those of crude oils and 350–300 times higher than that of water. An increase of the water content of I usually causes an increase in viscosity. The size of the dispersed particles as well as the type of the dissolved salts have an effect on the viscosity of I. T. Durbak

3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

GLEBOV, V.A.; PAVLOV, P.S., redaktor; KONYASHINA, A.D., tekhnicheskiy redaktor

[Manual for firemen operating pumping apparatus] Posobie dlia stvol'shchika pozharnoi okhrany. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1955. 72 p. (MLRA 8:7)
(Firemen's manuals)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P. S.

N/5
780.2
.p3

Osnovnyye fondy i proizvodstvennyye moshchnost i promyshlennosti SSSR i ikh ispol' zovaniye (Fixed Capital and production capacity of USSR industry and their utilisation) Lektsiya, prochitannaya v Vysshey partiynoy shkole pri TSK KPSS. Moskva, 1953 25 p. Bibliographical footnotes.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

Pavlov, P. T.

CHEGODAYEV, M.V., inzhener; GERMAN, A.M., inzhener; PAVLOV, P.T., inzhener.

Demonstration building of apartment houses with walls made of large silicate blocks. Nov.tekh.i pered.op.v stroi. vol.19:8-13 Ag '57. (MIRA 10:10)

(Apartment houses) (Building blocks)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P.T., inzhener.

Colored silicate bricks. Mov. tekh. i pered. op. v stroi. 18 no.11:24-26 N'56. (MLRA 10:1)
(Brickmaking)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

Pavlov, P.P. Ye

Category : BULGARIA/Optics - Photometry, Colorimetry, and Illumination Engineering K-10

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 5358

Author : Pavlov, Pel"r, Ye.
Title : New Definitions and Methods for Densitometric Analysis

Orig Pub : Izv. B"lgar. AN Otd. fiz.-matem. i tekhn. n., ser. fiz., 1955, 5, 169-191

Abstract : The connection between regular, diffused, and scattered transparency and the regular diffused and scattered density are investigated. A method is given for determining these quantities by densitometric means. A photometric setup with an Ulbricht sphere is proposed for the measurement.

Card : 1/1

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P.Y. [Pavlov, P.I]

Condition of fish stocks in the lower Dnieper prior to the construction of the dam of the Kakhovka Hydroelectric Power Station. Trudy Inst. gidrobiol. AN URSR no.34:224-254 '58. (MIRA 12:3)
(Dnieper River--Fishes)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

P

USSR/General and Specialized Zoology. Insects. Harmful Insects and Acarids. Forest Pests.

Abs Jour : Ref Zhur Biol., No 6, 1959, 25477

Author : Pavlov, P.V.

Inst : All-Union Institute for the Protection of Plants.

Title : Problems of Forest Protection and Problems in the Control of Forest Pests in Saval'Forestry.

Orig Pub : Tr. Vses. in-ta zashchity rast., 1957, vyp. 8, 19-36

Abstract : On the basis of investigations of mass-propagation outbreaks of pests for the 50 years and on the basis conducted measures for forest protection, the following deductions were made. Conditions for plant resistance to pests are created during its planting. Problems of forest-economy operations. To avoid the creation of pure cultivations, especially those of pine trees;

Card 1/2



APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P.V.

Forest protection problems and tasks in forest pest control in the Savala forestry district. Trudy VIZR no.8:19-36 '57. (MIRA 12:8)

1. Direktor Saval'skogo leskhoza.
(Balashov Province--Trees--Diseases and pests)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P.V.; PANTELEYEV, V.A.; MAYOROV, A.V.

Antimony diffusion in silicon along dislocations. Fiz. tver. tela 6 no.2:382-389 F '64. (MIRA 17:2)

1. Gor'kovskiy gosudarstvennyy universitet imeni Lobachevskogo.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P. V., Cand Phys-Math Sci -- (diss) "Crystalline structure of herderite, datolite, and gadolinite." Mos, [Publication House of Acad Sci USSR], 1958. 9 pp with ills (Acad Sci USSR, Inst of Crystallography, Gor'kiy State Univ im N. I. Lobachevskiy), 130 copies (KL, 18-58, 95)



APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

NOSKOV, B.M.; PAVLOV, P.V.; SHCHERBEDINSKIY, G.V.

Diffusion of tin in $\alpha$ and $\beta$-phases of the system copper - tin. Izv. vys. ucheb. zav.; fiz. no.4:163-167 '59. (MIRA 13:3)

1.Fiziko-tekhnicheskiy institut Gor'kovskogo gosuniversiteta imeni N.I. Lobachevskogo.

(Copper-tin alloys)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

67761

18.7500 SOV/126-8-5-14/29

AUTHORS: Zelinskiy, M.S., Noskov, B.M., Pavlov, P.V., and Shitova, E.V.

TITLE: Influence of Vanadium Additions on the Self-Diffusion of Iron

PERIODICAL: Fizika metallov i metallovedeniye, 1959, Vol 8, Nr 5, pp 725-730 (USSR)

ABSTRACT: In contrast to the effect of many other transition elements, vanadium has been found to give a weaker atomic bonding than occurs in pure iron (Refs 6, 7). Since for other metals results of diffusion and X-ray investigations agree, the authors decided to study the self-diffusion of iron with respect to vanadium content. Although this had already been studied, work by Sanadze and Tsivtsivadze (Ref 8) has thrown doubt on some previous results (Refs 4, 5, 9). The present authors used three Fe-V (0.48, 1.01 and 2.04% V) and two Fe-V-C (0.096, 2.46% V and 0.820, 0.25% C, respectively) alloys (compositions shown in Table 1). 5 x 8 x 25 mm plane parallel specimens were subjected to homogenizing annealing at 1100 °C for 20 hours. A thickness of about 0.005 mm of radioactive $Fe^{59}$ was electrodeposited on one face. Pairs of specimens with

Card 1/3

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Influence of Vanadium Additions on the Self-Diffusion of Iron

their active faces in contact were subjected to isothermal diffusion annealing for 4-200 hours in a quartz tube evacuated to $10^{-3}$ mm Hg. Temperature (900-1300 and 1100-1340 for the Fe-V and Fe-V-C alloys, respectively) was controlled to ± 5 °C. After annealing specimens were rapidly quenched and the self-diffusion coefficients determined by removing layers and measuring the integral residual gamma-activity of the remainder of the specimen (Ref 10), with precautions to avoid end effects. Two to four independent determinations were made at each temperature. From the break at 1100 °C on the curve of log D vs inverse of absolute temperature it was deduced that below this temperature inter-crystallite diffusion plays a big part. Results above 1100 °C referred to uniform diffusion and were used in calculating the coefficients: these and other diffusion parameters are shown in Table 2. In Table 3 the corresponding data for inter-crystallite diffusion calculated by Fisher's formula (Ref 11) are given for the Fe-V alloys. The linear relation between the logarithm of the uniform diffusion coefficient and

Card 2/3

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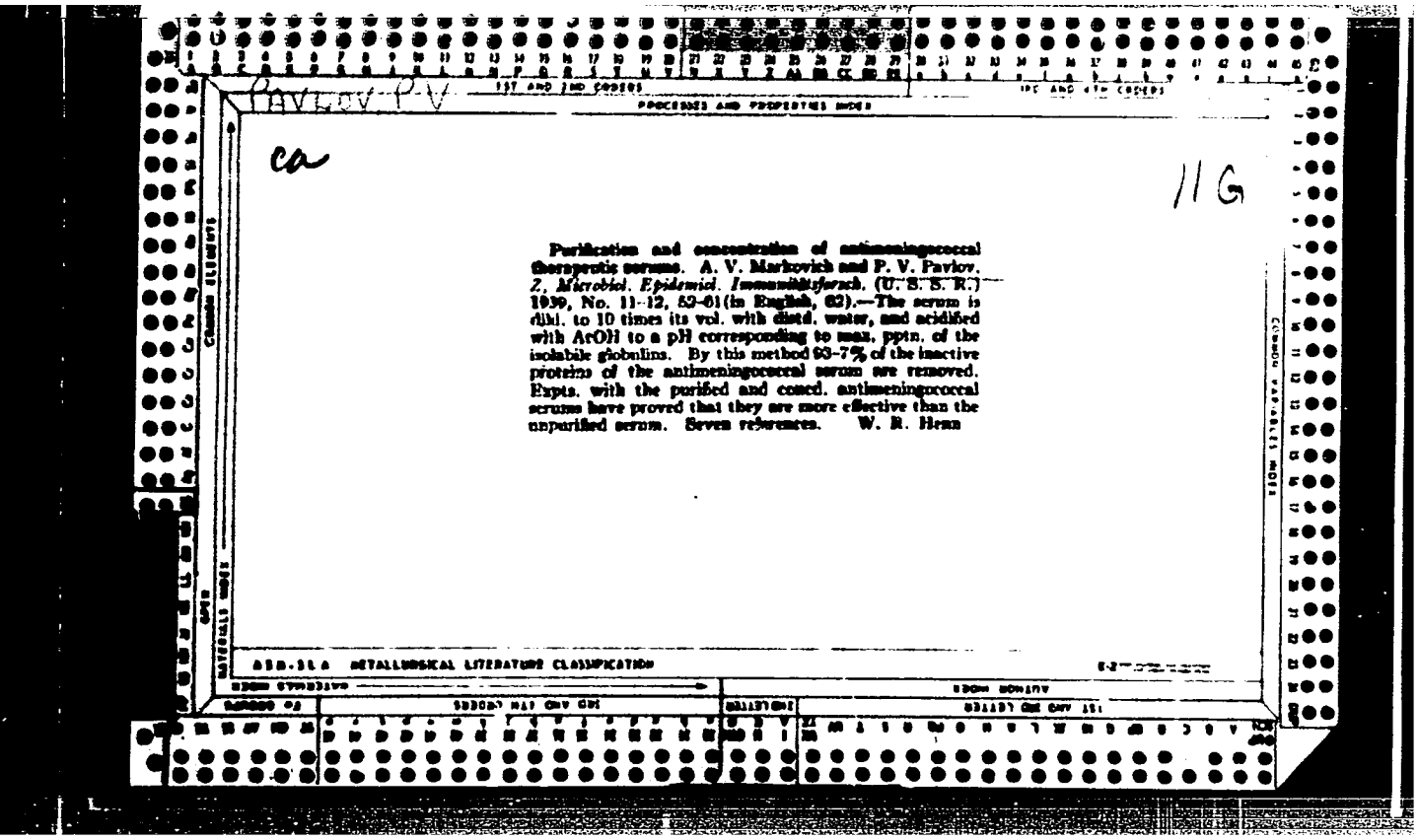
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239



Pavlov-P-V

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11G

Purification and concentration of antimeningococcal therapeutic serums. A. V. Markovich and P. V. Pavlov. *Z. Mikrobiol. Epidemiol. Immunobiologiforsch.* (U. S. S. R.) 1939, No. 11–12, 52–61 (in English, 62).—The serum is dild. to 10 times its vol. with distd. water, and acidified with AcOH to a pH corresponding to max. pptn. of the isolable globulins. By this method 93–7% of the inactive proteins of the antimeningococcal serum are removed. Expts. with the purified and concd. antimeningococcal serums have proved that they are more effective than the unpurified serum. Seven references. W. R. Heun

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P. et al.

"Action of Penicillin on the Whooping Cough Bacillus in an Experiment," Zhur Mikrob, Epidem, i Immunobiol, No. 11, p 52, 1948.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P.N., [illegible], V.I.

"Manual on the Application of Bacterial and Virus Preparations"
Spravochnik po Primeneniyu Bakterial'nykh i Virusnykh Preparatov, [illegible]
1961

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

FUKS, I.M.; PAVLOV, P.V., zaveduyushchiy; TIMAKOV, V.D., professor, direktor.

Sensitizing properties of diphtheria anatoxins. Zhur.mikrobiol.epid.i immun. no.4:19-24 Ap '53. (MLRA 6:6)

1. Otdel profilaktiki detskikh infektsiy Instituta epidemiologii i mikrobiologii imeni pochetnogo akademika N.F. Gamalei Akademii meditsinskikh nauk SSSR (for Pavlov, Fuks). 2. Institut epidemiologii i mikrobiologii imeni pochetnogo akademika N.F. Gamalei Akademii meditsinskikh nauk SSSR (for Timakov). (Diphtheria) (Toxins and antitoxins)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, I. V.

"On the High-Level Training Among Members of the Divisi n" (paper read at a session of the institute's Scientific Council held during the first half of 1955). Proceedings of Inst. Epidem. and Microbiol. im. Gamaleya, 1954-56.

Division of Children's Infections [Pavlov, I. V., head.], Inst.' Epidem. and Microbiol. im. Gamaleya, AMS USSR.

SO: Sum 1186, 11 Jan 57

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

USSR / Microbiology. Microbes Pathogenic for Man and Animals. Bacteria. Root Bacteria. F-4

Abs Jour: Ref Zhur-Biol., 1958, No 17, 76797.

Author : Pavlov, P. V.; Nekhotenova, Ye. I.
Inst : Not given.
Title : Test of Extraction of a Diphtheria Toxin in Conditions of Deep Cultivation of Park-Williams 8. Report I. Toxin Formation in Conditions of Deep Cultivation.

Orig Pub: Zh. mikrobiol., epidemiol. i immunobiologii, 1957, No 4, 98-101.

Abstract: By the method of deep cultivation of the diphtheria strain Park-Williams 8 during purging with a mixture of air with $CO_2$, passed over a nutrition medium, the toxin formation is successfully speeded up and increased. The toxin was obtained even in

Card 1/2



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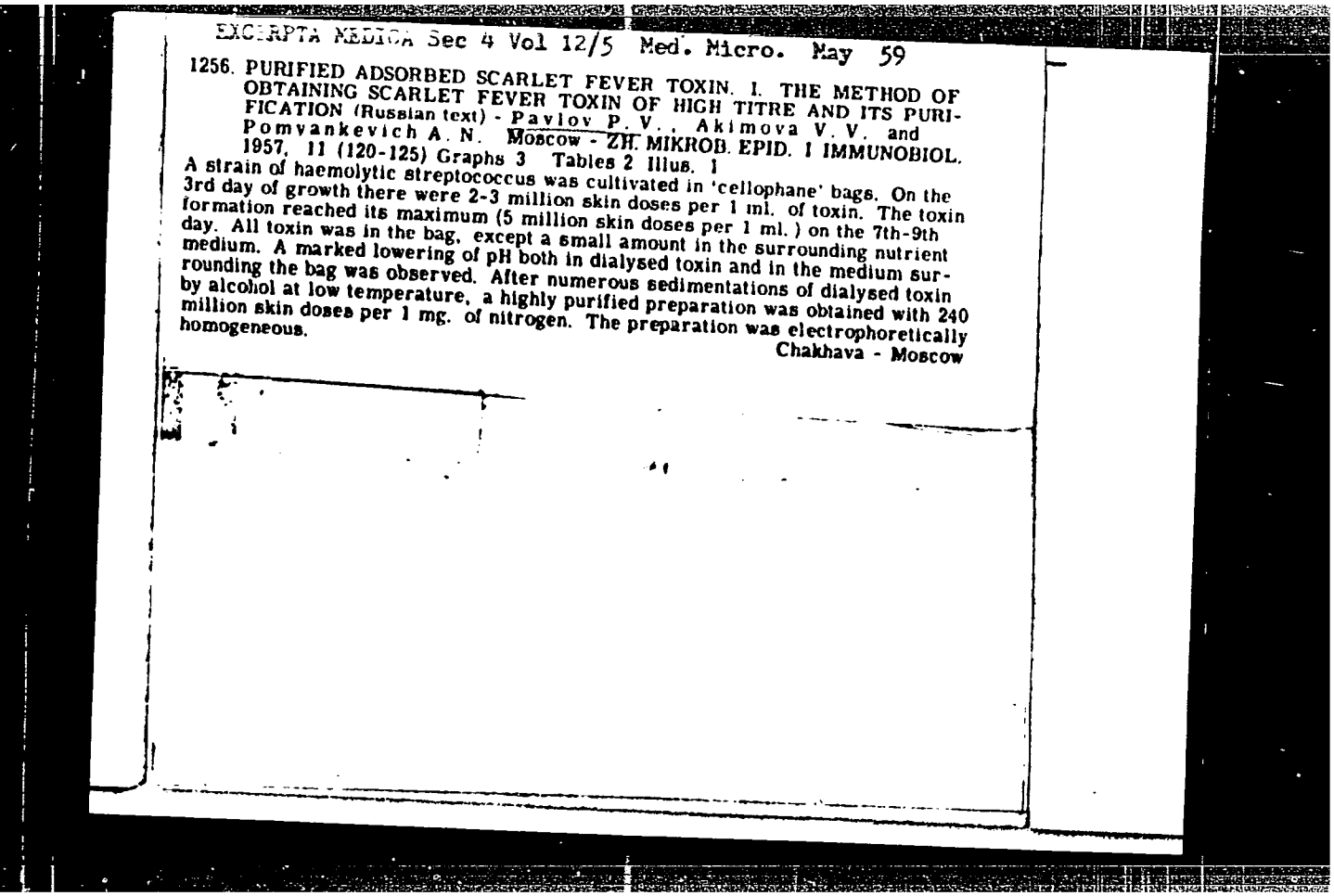

EXCERPTA MEDICA Sec 4 Vol 12/5 Med. Micro. May 59

1256. PURIFIED ADSORBED SCARLET FEVER TOXIN. I. THE METHOD OF OBTAINING SCARLET FEVER TOXIN OF HIGH TITRE AND ITS PURIFICATION (Russian text) - Pavlov P. V., Akimova V. V. and Pomyankevich A. N. Moscow - ZH. MIKROB. EPID. I IMMUNOBIOL. 1957, 11 (120-125) Graphs 3 Tables 2 Illus. 1

A strain of haemolytic streptococcus was cultivated in 'cellophane' bags. On the 3rd day of growth there were 2-3 million skin doses per 1 ml. of toxin. The toxin formation reached its maximum (5 million skin doses per 1 ml.) on the 7th-9th day. All toxin was in the bag, except a small amount in the surrounding nutrient medium. A marked lowering of pH both in dialysed toxin and in the medium surrounding the bag was observed. After numerous sedimentations of dialysed toxin by alcohol at low temperature, a highly purified preparation was obtained with 240 million skin doses per 1 mg. of nitrogen. The preparation was electrophoretically homogeneous.

Chakhava - Moscow

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012396

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

PAVLOV, P.V.; NEKHOTENOVA, Ye.I.

Obtaining diphtherial toxin in Park-Williams 8 stab cultures.
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1. Iz Instituta epidemiologii i mikrobiologii imeni N.F.Gamalei
AMN SSSR.
(DIPHTHERIA, immunol.
toxin prod. in stab cultures)

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(DIPHTHERIA, immunology,
antigenic & immunogenic properties of anatoxins from toxins in deep cultures (Rus))

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